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Our GenAI and GPT Onlne Program is your gateway to mastering the transformative world of generative AI. Designed for learners at all levels, this comprehensive bundle includes expert-led courses and insightful eBooks that explore everything from generative adversarial networks (GANs) to advanced applications of ChatGPT in business, cybersecurity, and creative industries.

Through hands-on practice, foundational lessons, and ethical considerations, you'll gain the expertise needed to integrate AI into various fields, enhance productivity, and drive innovation. Whether you're a tech enthusiast, an IT professional, or a business leader, these resources provide invaluable insights into generative AI models, tools like Amazon Bedrock and Azure OpenAI, and prompt engineering techniques. Elevate your understanding and lead with confidence in the age of AI.

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GENERATIVE **AI** & GPT

All Courses Included in One Comprehensive Package

An Introduction to Generative AI

COURSE

Generative artificial intelligence (AI) focuses on creating models that can generate content such as text, images, or even multimedia. Unlike discriminative models that classify or label existing data, generative models operate by learning patterns from the provided data and producing novel outputs. You'll begin this course with an overview of generative. You will explore some notable examples of generative models, including OpenAI's ChatGPT and Google Bard. Next, you will look at the use of prompt engineering when interacting with AI chatbots. Then, you will then delve into the history and evolution of generative AI models including important milestones that culminated in the conversational agents that we work with today. Finally, you will explore the risks and ethical considerations associated with generative AI, such as unintentional use of copyrighted data, the use of personal data for training, and the creation of malicious deepfakes using AI. You will also learn how you can mitigate some of these risks while working with generative technologies.

Artificial Intelligence for Learning: Using AI and Generative AI to Support Learner Development, Second Edition

BOOK

Critically assess the impact of artificial intelligence on the L&D function and understand how to use it to improve learning in the workplace.

A Primer on Generative Adversarial Networks

BOOK

This book is meant for readers who want to understand GANs without the need for a strong mathematical background.

Automating Data Analytics and Modeling with Generative AI

BOOK

In this course, you will gain a foundational understanding of the importance of data automation, explore techniques for automating data cleaning and preparation, and learn how automation can be applied to data analytics and modeling tasks.tical background.

Automating Data Analytics and Modeling with Generative AI

COURSE

In this course, you will gain a foundational understanding of the importance of data automation, explore techniques for automating data cleaning and preparation, and learn how automation can be applied to data analytics and modeling tasks.

Creative Prototyping with Generative AI: Augmenting Creative Workflows with Generative AI

BOOK

Reimagine different generative AI as useful creative prototyping tools that can be used to augment your own creative process and projects. Gain a deeper understanding of how generative AI can elevate your creative future.

Generative AI and its Impact to Everyday Business

COURSE

In this course, you will gain an introductory understanding of generative AI and its potential impact on everyday business activities. This will provide you with a foundation for more in-depth exploration of specific techniques and ethical considerations in subsequent courses.

Interfaceless: Conscious Design for Spatial Computing with Generative AI

BOOK

This book offers an insightful journey into harmonizing user-centered design with the vast potential of AI in spatial computing.

Deep Dive Into Generative AI with Azure OpenAI

COURSE

The Azure Cloud platform's generative artificial intelligence (AI) solutions are robust and mature. Encompassing multiple services and supporting rich integration with other Azure services, it's relatively easy to get up and running with generative AI solutions using Azure.In this course, you'll dive deep into generative AI with Azure OpenAI, beginning with an introduction to Azure OpenAI architecture, an overview of OpenAI Studio, and a hands-on demonstration of how to customize models in Azure OpenAI. Then you'll learn how to build a custom app, fine-tune OpenAI models, and deploy models with Azure OpenAI. You'll explore text generation, translation, question answering, image generation, and troubleshooting. Finally, you'll discover Azure OpenAI service integrations, AI Search (formerly Cognitive Search), privacy and compliance issues, and quotas and collaboration with Azure OpenAI.

Harnessing the Disruption of Generative AI

COURSE

In this course, you'll explore how generative AI is disrupting and transforming different industries, and how to lay the appropriate groundwork for its implementation in your organization. This will help you devise more efficient strategies to leverage the power of generative AI to reshape your organization.

A Primer on Generative Adversarial Networks

BOOK

This book is meant for readers who want to understand GANs without the need for a strong mathematical background.

Enterprise Security: Artificial Intelligence, Generative AI, & Cybersecurity

COURSE

Generative artificial intelligence (AI) is cutting-edge technology that is commonly used to optimize content creation, product design, and customer experience enhancement for everyday businesses. In this course, you will explore strategies that help leverage the power of generative AI to reshape your organization's cybersecurity solutions and processes. Discover basic concepts of artificial intelligence and discuss the effectiveness of various AI-based security measures based on real-life case studies. Consider the strengths and weaknesses of AI and generative AI in security-related scenarios and discover how to classify types of threats that AI and generative AI can help mitigate. Learn how AI can be used for threat classification, detection, and prevention, and explore ethical considerations when employing AI in cybersecurity. Lastly, look at implementing AI in hypothetical cybersecurity scenarios, and discover future trends that may intersect AI and cybersecurity based on current industry advancements.

Generative AI: How ChatGPT and Other AI Tools Will Revolutionize Business

BOOK

This book will show how generative technology works and the drivers. It will also look at the applications – showing what various startups and large companies are doing in the space. There will also be a look at the challenges and risk factors.

Enterprise Security: Leveraging Generative AI with Common Security Tools

COURSE

Generative AI is artificial intelligence technology commonly geared towards creating content, however, it also has the potential to impact everyday business activities in many areas. In this course, you'll learn about commonly used tools in cybersecurity, their primary functions, and the potential benefits of enhancing cybersecurity tools with AI and generative AI. Explore the limitations of traditional security tools that can be addressed with AI and how to classify various types of AI models suitable for different security tools and contexts. Finally, discover AI integration challenges, tool maintenance, and migration planning, and explore how AI can enhance the predictive capabilities of common security tools leading to more robust and proactive cybersecurity measures.

Getting Started with ChatGPT and AI Chatbots: An Introduction to AI Generative Tools

BOOK

Getting Started with ChatGPT and AI Chatbots explores the ‘big three’ AI chatbots - OpenAI ChatGPT, Microsoft / Windows Copilot and Google Bard - demystifying their operation, and providing a wealth of tools for thinking about how to talk to these smart tools.

MIT Sloan Management Review Article on From ChatGPT to HackGPT: Meeting the Cybersecurity Threat of Generative AI

BOOK

It’s time to replace traditional, rule-based approaches to cybersecurity with “smarter” technology and training.

Generative AI APIs for Practical Applications: An Introduction

COURSE

Generative artificial intelligence (AI) has taken the tech and business world by storm. It currently can create stories, text, images, summaries, essays, and much more, with sometimes nothing more than a few words to describe what you want. Unfortunately, it can also be used in ways that can be harmful, such as creating deepfakes and false information. In this course, you will discover the differences between generative AI and general AI and look at the history and future of generative AI. You will explore applications of generative AI and the ethical, safety, security, and privacy concerns associated with its use. Then you will identify common generative AI application programming interfaces (APIs) and best practices when using generative AI. Next, you will find out how to create images and text with generative AI, and you will focus on the challenges of AI integration into processes and workflows. Finally, you will learn how to integrate generative AI APIs to create tools like chatbots.

Hyperautomation with Generative AI: Learn How Hyperautomation and Generative AI Can Help You Transform Your Business and Create New Value

BOOK

This book provides an introduction to hyperautomation, highlighting its key components and providing guidance on how organizations can implement it to streamline everyday business operations.

Generative AI for Product Managers

COURSE

As a product manager, mastering generative artificial intelligence (GenAI) can enhance your ability to develop, strategize, and innovate technical products. This course is designed to bridge the gap between traditional product management and the cutting-edge capabilities offered by GenAI. Begin this course by discovering GenAI and its applications in product management. Then you will learn how to leverage different GenAI models to your advantage and explore the integration of GenAI throughout the product life cycle, from initial idea generation to analyzing customer feedback for continuous improvement. Next, you will investigate how GenAI can aid in persona development and product ideation, providing new ways to understand your users and create products that genuinely meet their needs. You will examine the use of GenAI as a dynamic tool for product innovation, helping you to organize product requirements more efficiently and effectively. Finally, you will identify the ethical and regulatory considerations of using GenAI and take a look at emerging trends.

MIT Sloan Management Review Article on From ChatGPT to HackGPT: Meeting the Cybersecurity Threat of Generative AI

BOOK

It's time to replace traditional, rule-based approaches to cybersecurity with "smarter" technology and training.

Generative AI Foundations: Advanced Generative AI Techniques for IT

COURSE

Unlock the transformative potential of advanced generative AI (GenAI) models in site reliability engineering (SRE). This course caters to SRE professionals, IT architects, and those eager to harness the full scope of generative AI in the context of SRE and covers the concepts of advanced generative AI techniques to bolster system reliability, scalability, and efficiency in SRE. In this course, we will begin with an overview of advanced GenAI and SRE. You'll explore how to deploy advanced models from the Azure AI model catalog and transition into testing approaches for applications integrating GenAI. Next, you'll deploy a GenAI-based application to Azure Kubernetes Service (AKS), explore the suitability of GenAI models for SRE, and see which SRE tools incorporate GenAI. With that foundation, you'll experiment with various methods for supporting SRE operations with GenAI including chatbots, implementing a backoff mechanism, evaluating model performance, and configuring log analytics for GenAI models on Azure. Lastly, you'll explore GenAI and SRE advancements, and fine-tune a GenAI model in Azure OpenAI Studio.

Generative AI Foundations: Ethical & Responsible Use of AI in IT

COURSE

The rapid integration of artificial intelligence (AI) in information technology (IT) brings forth ethical responsibilities that demand critical attention. This course delves into the ethical and responsible use of AI in IT, providing IT professionals, developers, and decision-makers with the knowledge and tools needed to ensure AI models are designed and deployed ethically. Begin by exploring ethical considerations and biases and the implications of biased AI models. Then you will learn how to design an AI model while incorporating legal and compliance considerations and use anonymization to ensure privacy. You will configure content safety filters in Azure OpenAI Studio to prevent the generation of harmful content. You will discover strategies, guidelines, and legal and compliance considerations for ethical AI model development, as well as the ethical impact of AI models. Next, you will examine common AI principles and goals and dive into approaches and algorithms to help identify and reduce biases. Finally, you will investigate how ignoring sensitive features when training a predictor does not necessarily address AI model disparities.

MIT Sloan Management Review Article on How Generative AI Can Support Advanced Analytics Practice

BOOK

Large language models can enhance data and analytics work by helping humans prepare data, improve models, and understand results.

MIT Sloan Management Review Article on Nudge Users to Catch Generative AI Errors

BOOK

Using large language models to generate text can save time but often results in unpredictable errors. Prompting users to review outputs can improve their quality.

Generative AI Foundations: IT Integration with Generative AI

COURSE

In the rapidly evolving landscape of information technology (IT), the integration of generative artificial intelligence (AI) is becoming increasingly essential. Generative AI, a branch of artificial intelligence, is responsible for generating content, such as text, images, and even code that is often indistinguishable from that created by humans. This course is designed to provide IT professionals with the knowledge and practical skills to leverage generative AI in the field of IT administration. Begin this course by exploring generative AI concepts and tools. You will learn how to deploy generative AI models and apply generative AI techniques on Azure. Then you will investigate how to create effective prompts and how to integrate your organization's data with Azure OpenAI models. Next, you will focus on analyzing generative AI models, automating tasks, and integrating generative AI tools. Finally, you will discover security concerns with using generative AI, find out how to apply security protocols, and troubleshoot generative AI. At the end of this course, you will be able to apply Generative AI models to address real-world IT administration challenges.

MIT Sloan Management Review Article on Use Open Source for Safer Generative AI Experiments

BOOK

Commercial AI services can put proprietary data at risk — but there are alternatives.

Generative AI Models: Generating Data Using Generative Adversarial Networks

COURSE

Generative adversarial networks (GANs) represent a revolutionary approach to generative modeling within the realm of artificial intelligence. Begin this course by discovering GANs, including the basic architecture of a GAN, which involves two neural networks competing in a zero-sum game - the generator and the discriminator. Next, you will explore how to construct and train a GAN using the PyTorch framework to create and train the models. You will define the generator and discriminator separately, and then kick off the model training. Finally, you will focus the deep convolutional GAN, which uses deep convolutional neural networks (CNNs) rather than regular neural networks. CNNs are optimized for working with grid-like data, such as images and these can generate better-quality images than GANs built using dense neural networks. In conclusion, this course will provide you with a strong understanding of generative adversarial networks, their architecture, and their usage scenarios.

Rise of Generative AI and ChatGPT: Understand How Generative AI and ChatGPT are Transforming and Reshaping the Business World

BOOK

Generative AI and ChatGPT have the potential to transform industries and society by improving efficiency, enhancing creativity, and enabling more personalized experiences. If you are someone who is looking to stay ahead of the curve in this rapidly evolving digital age and utilize its potential, this book is for you.

Generative AI Models: Generating Data Using Variational Autoencoders

COURSE

Variational autoencoders (VAEs) represent a powerful variant of traditional autoencoders, designed to address the challenge of generating new and diverse samples from the learned latent space. VAEs introduce probabilistic components, incorporating a probabilistic encoder that maps input data to a distribution in the latent space and a decoder that reconstructs data from samples drawn from this distribution.Begin this course by discovering how variational autoencoders can be used for generating images. Next, you will create and train VAEs in Python and the Google Colab environment. Then you will construct the encoder and decoder. Finally, you will train the VAE on multichannel color images. Upon course completion, you will have a solid understanding of variational autoencoders and their use in generating images.

Leading in the Age of Generative AI

COURSE

In this course, you will learn strategies to effectively lead organizations through the transformational impact of generative AI. These topics will allow you to gain insights into generative AI, develop a mindset for implementing generative AI in an organization, explore strategies for leveraging generative AI in business transformation, and understand the importance of ethical and responsible AI adoption.

Generative AI Models: Getting Started with Autoencoders

COURSE

Autoencoders are a class of artificial neural networks employed in unsupervised learning tasks, primarily focused on data compression and feature learning. Begin this course off by exploring autoencoders, learning about the functions of the encoder and the decoder in the model. Next, you will learn how to create and train an autoencoder, using the Google Colab environment. Then you will use PyTorch to create the neural networks for the autoencoder, and you will train the model to reconstruct high-dimensional, grayscale images. You will also use convolutional autoencoders to work with multichannel color images. Finally, you will make use of the denoising autoencoder, a type of model that takes in a corrupted image with Gaussian noise, and attempts to reconstruct the original clean image, thus learning better representations of the input data. In conclusion, this course will provide you with a solid understanding of basic autoencoders and their use cases.

The Potential of Generative AI: Transforming technology, business and art through innovative AI applications

BOOK

This book explores the cutting-edge capabilities and potential of generative AI in the tech landscape. It will help you discover how generative AI can unlock new opportunities and enhance business operations.

Generative AI on AWS: Building GenAI Models with Amazon Bedrock

COURSE

Dive deep into the world of Amazon Bedrock and examine its applications in generative artificial intelligence (GenAI) development. Starting with the core concepts, this course takes you on a comprehensive journey through the various ways Amazon Bedrock can be applied and the inherent benefits of using it for generative AI development. You will explore the Bedrock console and playgrounds and learn how to design and develop different generative AI models. Then you will focus on evaluating a generative AI project. Finally, you will design a business application using Bedrock and investigate the platform's strengths and weaknesses. At the end of the course, you will be equipped with the skills to design innovative business applications and develop new generative AI models using Amazon Bedrock.

Reimagining Marketing with Generative AI

COURSE

In this course, you'll learn the key benefits of leveraging AI for marketing tasks, and identify basic Gen AI tools and data inputs used in personalized marketing. You'll also learn about key considerations for using Gen AI to create content, and ways in which Gen AI has changed the way users search on the Internet. Moreover, you'll discover how AI aids in the performance and sentiment of social media content, and how to leverage AI in marketing functions.

Generative AI on AWS: Building GenAI Models with Amazon SageMaker

COURSE

This comprehensive course introduces learners to the world of generative artificial intelligence (AI) models within machine learning (ML), focusing on Amazon SageMaker as a prime tool for design, training, optimization, deployment, and monitoring. In this course, we will begin with a deep dive into the fundamental concepts and types of generative models like generative adversarial networks (GANs) and variational autoencoders (VAEs). We will explore their pros, cons, and relevant architectures. Next, we will use hands-on tutorials and in-depth discussions to guide you through the steps of designing a GAN architecture, leveraging SageMaker's built-in algorithms, preprocessing data, and distributed training capabilities. We will then delve into optimization techniques, transfer learning, and quality evaluation methods, looking at ways apply these concepts in real-world scenarios. Lastly, we will introduce deployment strategies in SageMaker, highlighting how to serve models as endpoints for real-time inferences and how to efficiently monitor and troubleshoot their generative models.

Reimagining Product Management with Generative AI

COURSE

In this course, you will discover how generative AI can aid and support your understanding of product management, including its key benefits, and its use in defining market opportunities and developing user stories and test scenarios. You'll also learn about the role generative AI plays in gathering product feedback.

GENERATIVE **AI** & GPT

Generative AI on AWS: Deploying & Managing GenAI Services on AWS

COURSE

Embark on an enlightening journey into the realm of Generative artificial intelligence (AI) and its transformative impact across diverse industries, powered by AWS's robust suite of services. This course unravels the optimal AWS tools for deploying generative AI models, guiding participants through the nuances of configuration, setup, and deployment options. Engage with best practices for data preparation, model training, and optimization using premier AWS services like Amazon SageMaker. Further, participants will refine their expertise in implementing scalable architectures, leveraging AWS's advanced monitoring tools, ensuring rigorous security protocols, and mastering performance optimization strategies. All these culminate in crafting efficient, scalable, and secure generative AI applications on AWS.

Exploring the Power of ChatGPT: Applications, Techniques, and Implications

BOOK

Learn how to use the large-scale natural language processing model developed by OpenAI: ChatGPT. This book explains how ChatGPT uses machine learning to autonomously generate text based on user input and explores the significant implications for human communication and interaction.

Learn AI-assisted Python Programming: With GitHub Copilot and ChatGPT

BOOK

Writing computer programs in Python just got a lot easier! Use AI-assisted coding tools like GitHub Copilot and ChatGPT to turn your ideas into applications faster than ever.

Generative AI on AWS: Generating Code with Amazon CodeWhisperer

COURSE

In the rapidly evolving world of software development, efficiency and productivity are paramount. This course provides an in-depth exploration of Amazon CodeWhisperer, one of the industry's most cutting-edge tools for automating the code generation process. You will begin by investigating the advantages of artificial intelligence (AI) code generation and its impact on productivity. Then you will explore Amazon CodeWhisperer, focusing on its role in automating code generation, its different techniques for code generation, specific use cases, and key features. Then you will set up CodeWhisperer for various platforms, including JetBrains and JupyterLab. Next, you will examine the code suggestions features of CodeWhisperer and learn how to configure security scans. Finally, you will discover how CodeWhisperer can optimize software development and you will identify best practices for generating and integrating code with CodeWhisperer.

MIT Sloan Management Review Article on How ChatGPT Can and Can't Help Managers Design Better Job Roles

BOOK

Many leaders don’t know how to design healthy, productive roles. ChatGPT proves effective here, when used wisely.

Killer ChatGPT Prompts: Harness the Power of AI for Success and Profit

BOOK

Unlock the full capabilities of ChatGPT at work, at home, and in your day-to-day

Generative AI on AWS: Getting Started

COURSE

Amazon Web Services (AWS) provides both AI and generative AI services that can be used for developing and deploying business solutions. In this course, we will begin by introducing the foundational principles of generative artificial intelligence (GenAI). We will explore the benefits AWS offers for generative AI development and deployment. Next, we will delve into the intricacies of foundational models, focusing on their pivotal role in top AI startups and their relationship with generative models. Then, we will explore generative AI services available from AWS, distinguishing them from standard AI offerings, and gaining insight into the nuances of building generative AI systems on AWS. Finally, we will look at the robust infrastructure AWS provides to support generative AI development.

Rise of Generative AI and ChatGPT: Understand How Generative AI and ChatGPT are Transforming and Reshaping the Business World

BOOK

Generative AI and ChatGPT have the potential to transform industries and society by improving efficiency, enhancing creativity, and enabling more personalized experiences. If you are someone who is looking to stay ahead of the curve in this rapidly evolving digital age and utilize its potential, this book is for you.

Generative AI on Azure: Generative AI with Azure OpenAI

COURSE

Artificial intelligence (AI) is being harnessed everywhere today for a myriad of different practical applications. Microsoft Azure's OpenAI service is a key component in the development of AI apps in Azure and has gained significant attention for its ability to create intelligent solutions. In this course, you'll learn about Azure OpenAI service, including models, practical uses, and AI content generation principles with OpenAI. Then, you'll explore integration with Azure OpenAI, text and question answering, OpenAI vs. other generative AI services, and OpenAI pricing. Finally, you'll dig into limitations of OpenAI and what the future holds for Azure OpenAI.

Generative AI on Azure: Introduction to Generative AI on Azure

COURSE

In today's rapidly evolving technological landscape, generative artificial intelligence (AI) has gained significant attention for its ability to create intelligent solutions. This path focuses on leveraging the Azure cloud platform to explore and harness the power of generative AI.In this course, you'll explore how generative AI works and types of generative AI models. Then, you'll be introduced to Azure services for generative AI, including Azure OpenAI service, Azure Bot service, and Azure Machine Learning. Finally, you'll learn about privacy and policy considerations for generative AI, chatbot creation, personalized marketing content, new product development, and training and tuning generative AI models.

Generative AI on GCP: An Introduction

COURSE

Generative artificial intelligence (AI) has taken the world by storm. Chatbots, photo creation, document writing, and other practical applications are everywhere, and they're gaining in popularity and sophistication. Google Cloud Platform (GCP) has a broad range of powerful generative AI tools that can be used to leverage the power of modern artificial intelligence.In this course, you'll be introduced to generative AI, beginning with GCP and its generative AI offerings. You will discover the advantages and disadvantages of generative AI and features of GCP machine learning (ML). Then you'll learn about the generative AI life cycle, image generation, natural language processing (NLP), and best practices for developing generative AI. Finally, you'll explore GCP privacy, security, and compliance considerations, monitoring and logging with GCP, and some real-world generative AI use cases.

Reimagining the Customer Experience with Generative AI

COURSE

Generative AI's capabilities are transforming the way companies and customers interact and do business. In this course, you'll learn about how organizations utilize generative AI technology to enhance the customer experience and consider the challenges that this new technology may bring.

AI-Driven Project Management: Harnessing the Power of Artificial Intelligence and ChatGPT to Achieve Peak Productivity and Success

BOOK

Accelerate your next project with artificial intelligence and ChatGPT

Generative AI on GCP: Building Generative AI-powered Apps in GCP

COURSE

Google Cloud Platform (GCP) has a wide range of powerful generative artificial intelligence (AI) services that can leverage the power of modern AI. Using these services, developers can build powerful applications with GCP, and with the proper use of various technologies, developers new to GCP can gain the knowledge and skills necessary to develop and deploy cutting-edge generative AI applications.In this course, you will create a generative AI-powered app in GCP, beginning with planning and building a generative AI model, GCP environment setup, and Python environment creation. Then you will learn how to build and train a generator and a discriminator with TensorFlow. Next, you will build and run a training loop, and dockerize the training script. Finally, you will deploy your finished model to an application programming interface (API) endpoint and test that model.

Reimagining the Sales Process with Generative AI

BOOK

Generative AI technology is revolutionizing the world of sales by offering customers more personalized interactions and enabling the sales team to devote more time to high-level tasks. In this course, you'll discover how to best utilize AI technology to boost your revenue and improve your sales operations.hen used wisely.

Generative AI: How ChatGPT and Other AI Tools Will Revolutionize Business

BOOK

This book will show how generative technology works and the drivers. It will also look at the applications – showing what various startups and large companies are doing in the space. There will also be a look at the challenges and risk factors.

Leading Security Teams for GenAI Solutions: Generative AI Governance

COURSE

Generative artificial intelligence (AI) creates a variety of concerns in a number of different ways, so we must create governance to regulate these concerns. In this course, you will discover why governance in the realm of generative AI is crucial, how and by whom governance can be achieved, as well as the challenges and opportunities that arise with the use of generative AI. In addition, you will also explore how governments and legal bodies can regulate generative AI, and what regulations are already in place in the public sector. Then you will examine AI governance best practices, including engaging stakeholders, managing AI models, and building internal governance structures. Next, you will investigate the benefits of AI auditing and monitoring.Finally, you will learn how to implement a governance approach that includes user education, data and AI risk management, and regulatory compliance.

Transformer, BERT, and GPT: Including ChatGPT and Prompt Engineering

BOOK

This book provides a comprehensive group of topics covering the details of the Transformer architecture, BERT models, and the GPT series, including GPT-3 and GPT-4.

Leading Security Teams for GenAI Solutions: Protecting Intellectual Property

COURSE

Protecting intellectual property (IP) is an important part of any business. In this course, you will learn the fundamentals of intellectual property including copyright, trademarks, patents, and trade secrets.Discover how to defend against intellectual property infringement in the realm of generative AI, how using generative AI can result in IP infringement, and considerations to have when using generative AI solutions for yourself or your business. Then you will learn how to detect when your intellectual property has been infringed upon, identify risk areas, and determine what detection tools are available. Finally, you will explore legal considerations surrounding intellectual property and AI and investigate future trends of intellectual property in the era of AI. After completing this course, you will be ready to the crucial steps to detect and protect the intellectual property within your organization.

Getting Started with ChatGPT and AI Chatbots: An Introduction to AI Generative Tools

BOOK

Getting Started with ChatGPT and AI Chatbots explores the ‘big three’ AI chatbots - OpenAI ChatGPT, Microsoft / Windows Copilot and Google Bard - demystifying their operation, and providing a wealth of tools for thinking about how to talk to these smart tools.

Generative AI on GCP: Deep Dive Into Generative AI Studio

COURSE

Generative artificial intelligence (AI) has taken the world by storm, and Google Cloud Platform (GCP) has a broad range of powerful generative AI tools that can be used to leverage the power of modern artificial intelligence. Google's Generative AI Studio is a cloud console tool for rapid prototyping and testing of generative AI models and leverages the power of Vertex AI, allowing developers to interact, tune, and deploy large-scale AI models. In this course, you will take a deep dive into Generative AI Studio, beginning with generative AI prompt design, model training, and tuning language models. Then you will explore model performance evaluation and generative AI deployment. Next, you will focus on case studies and practical examples to discover how organizations use GCP generative AI. Finally, you will learn how to convert speech to text and prototype language applications.

Advanced NLP: Introduction to GPT

COURSE

Generative Pre-trained Transformer (GPT) models go beyond classifying and predicting text behavior to helping actually generate text. Imagine an algorithm that can produce articles, songs, books, or code – anything that humans can write. That is what GPT can help you achieve. In this course, discover the key concepts of language models for text generation and the primary features of GPT models. Next, focus on GPT-3 architecture. Then, explore few-shot learning and industry use cases and challenges for GPT. Finally, practice decoding methods with greedy search, beam search, and basic and advanced sampling methods. Upon completing this course, you will understand the fundamentals of the GPT model and how it enables text generation.

Generative AI on GCP: Empowering Machine Language Workflows with Vertex AI

COURSE

Google Cloud Platform (GCP) has a broad range of powerful generative AI tools that can be used to leverage the power of modern artificial intelligence (AI). A main component of that toolbox is Google's Vertex AI platform, which can aid organizations in streamlining machine learning (ML) workflows and deliver better machine learning models.In this course, you'll be introduced to Vertex AI, beginning with an overview of its features, model deployment, and end-to-end workflow. Then you'll explore pros and cons of Vertex AI, how it can be used to accelerate development, and model selection, training, and evaluation considerations. Finally, you'll learn about Vertex AI integration, data preparation, feature engineering, model evaluation, and Vertex AI success stories.

Running Statistical Tests Using Generative AI Tools

COURSE

Hypothesis testing is an important part of inferential statistics that involves assessing sample data to draw conclusions about a population parameter. Begin this course by exploring how hypothesis tests work, the results they generate, and how you interpret those results. You will learn how you set up the null and alternative hypotheses for tests and how to interpret the results which includes the test statistic and the p-value. Then you will discover the different types of t-tests, such as one-sample, two-sample, and paired samples. Finally, you will investigate the use of generative artificial intelligence (AI) tools to implement one-sample t-tests and interpret the results. At course completion, you will have a solid understanding of the basics of hypothesis testing and how prompt engineering can help you implement and interpret these statistical tests.

Generative AI on GCP: Harnessing Generative AI with Vertex AI

COURSE

A main component of the Google Cloud Platform (GCP) machine learning offering is Google's Vertex AI Platform, which provides tools that can aid organizations in leveraging Vertex AI for generative artificial intelligence (GenAI) projects. This course investigates the unique support and capabilities offered by Vertex AI specifically for generative AI models, empowering learners to unlock their creative potential. In this course, you will dig into harnessing generative AI using Vertex AI, beginning with an overview of generative AI support in Vertex AI, Vertex AI's generative AI models, and the features and uses of Google's Generative AI Studio. Then you will discover the Vertex AI API, explore Vertex AI Model Garden, and create custom models in Vertex AI. Finally, you will learn about responsible AI with safety filters and find out how to use Vertex AI Search and Conversation. After completing this course, you will be able to confidently leverage Vertex AI to build generative AI models.

Generative AI: An Introduction to Generative AI Concepts

COURSE

This comprehensive course delves deep into the fascinating world of Generative AI. Through a combination of engaging lectures and hands-on practice, participants will gain an in-depth understanding of what generative models are, how they differ from other AI techniques, and the theories and principles underlying them. You will discover various types of generative models, such as generative adversarial networks (GANs) and variational autoencoders (VAEs), and explore the process involved in training these models. Then you will examine the strengths, limitations, and practical applications of generative models across various domains, such as image generation, text generation, and data augmentation. Next, you will learn how to evaluate the performance of generative models and focus on ethical considerations in generative AI and the potential societal impact of these technologies. Finally, you will have the opportunity to generate synthetic data using generative models for training and testing purposes and investigate the notion of responsible AI in the generative era. Upon course completion, you will be prepared not just to use these powerful tools, but to use them wisely and ethically.

Google Generative AI APIs: Bard Fundamentals

COURSE

Google Bard can be used to write creative content, but it also allows you to share that content, adjust content to reflect a tone, and translate text to and from English. These capabilities can be used by almost anyone in virtually any industry to expedite tasks. In this course, you will learn how to use Bard to create poems, stories, lyrics and other content. You will also learn to create summaries and outlines. Next, you will discover Bard's image object recognition and finding capabilities. Finally, you will be introduced to Bard's translation capabilities.

Google Generative AI APIs: Advanced Features of Bard & PaLM

COURSE

Python and Google Bard can be combined to create applications and programs via the PaLM 2 API. These programs can solve problems or integrate Bard into workflows or processes. In this course, you will learn to solve code problems with Bard and how to use the Python Client API library to connect and use PaLM to create applications that integrate Bard. In particular, you will explore how to programmatically check content for appropriate communications, adjust parameters to fine-tune responses, troubleshoot common problems, add security to a process, and create a simple chatbot.

Google Generative AI APIs: Introduction to Google Bard

COURSE

Google Bard is a generative artificial intelligence (AI) that uses a large language model to facilitate answering questions and creating content for a wide range of topics. Understanding how the models work, its limitations, and what functionality the service provides enables anyone to optimize their usage of the service to accomplish a multitude of tasks. In this course, you will explore the Bard interface and learn to use Bard to answer questions and create content while also understanding Bard's limitations, features, and best practices. Additionally, you will explore the ethics, privacy, and security concerns that can come with using a generative AI like Bard.

Google Generative AI APIs: Bard & the PaLM API Fundamentals

COURSE

Google Bard is a useful tool for content creation, translation, and analysis; however, using the PaLM 2 API it is possible to integrate Bard directly into your own processes via the provided application programming interface (API) or the client libraries that are ready to go. This does require some programming and command line interface (CLI) experience but even a small amount should be sufficient to follow along. In this course you will learn about Bard's analytical capabilities, the PaLM 2 API, and how to use the API to accomplish tasks programmatically rather than through the Bard web interface. Additionally, you will explore the PaLM models, support languages and libraries, and the interfaces used for communicating with PaLM.

Generative AI: Leveraging Generative AI for Business

COURSE

In the modern digital era, generative artificial intelligence (AI) emerges as a game-changer, introducing unprecedented capabilities to the business landscape. This course is tailored for professionals seeking to understand the depth and breadth of generative AI's impact on the business world. Dive into the essentials, from the foundational concepts to ethical ramifications and real-world implementations. You will explore the transformative potential of generative AI on business operations, products, and customer experiences and delve into the algorithms propelling these innovations. Discover the possibilities for the interplay of human expertise with AI, managing data for AI deployments, and navigating legal landscapes. At the end of the course, participants will be adept at assessing the business value of generative AI and equipped with the knowledge to strategically integrate it into their organization's digital evolution.

Generative AI: Exploring the Depths of Large Language Models in Generative AI

COURSE

It's important to understand the intricacies of large language models (LLMs) and their pivotal role in the realm of generative artificial intelligence (AI). This course offers an exploration of the architecture, training, and fine-tuning of LLMs. Begin by learning how to implement various techniques tailored for specific generative tasks and delve into the integration of multimodal AI approaches, combining text and visuals. This course not only stresses the technical aspects but also confronts the ethical dilemmas, spotlighting bias and fairness in AI applications. Next, through a blend of theory, demonstrations, and emerging research discussions, explore how the full potential of LLMs can be harnessed and how to prepare for the next wave of AI innovations.

Generative AI: Getting Started with Large Language Models (LLMs)

COURSE

Dive deep into the expansive realm of large language models (LLMs), a pivotal cornerstone in today's artificial intelligence (AI)-driven landscape. This course unravels the intricacies of these models, from their architecture and training methods to their profound implications in real-world scenarios. Begin by exploring the significance of LLMs in the world of AI. Then you will examine the architecture of LLMs, evaluate the impact of data on the effectiveness of LLMs, and fine-tune your LLM for a specific task. Next, you will investigate the ethical implications of using LLMs, including potential biases and privacy issues. Finally, you will discover the potential and limitations of LLMs and learn how to stay updated with the latest advancements in this dynamic field.

Generative AI: Generative Modeling Foundations

COURSE

This course dives deep into the world of generative models, providing learners with a comprehensive understanding of various generative techniques and their applications.This course is carefully designed to bridge theoretical concepts with practical applications, demystifying the methods used in popular generative models like generative adversarial networks (GANs), variational autoencoders (VAEs), and more. Through a combination of rich imagery, illustrative examples, and detailed explanations, participants will explore the differences between generative and discriminative modeling, the foundational framework of generative artificial intelligence (AI), and the various evaluation metrics that gauge the success of these models. Whether you're a budding data scientist, an AI enthusiast, or a seasoned researcher, this course offers a deep dive into the cutting-edge techniques that are shaping the future of artificial intelligence.

Creating Advanced ChatGPT Prompts

COURSE

In the spirit of exploring the exciting possibilities of generative artificial intelligence (AI), this course was built using several AI technologies alongside Skillsoft's trusted design methodologies. Generative AI was used to draft the curriculum plan and on-screen text, while AI text-to-speech services were used for narration. In addition, generative AI was used to produce the course assessment and AI assistive technologies helped translate the course captions into multiple languages.This course covers advanced topics in ChatGPT prompts. You will use advanced techniques to write ChatGPT prompts and consider real-world applications for those prompts. Next you will explore the use of chain of thought prompting and zero-shot chain of thought prompting.

Prompt Engineering for Data: Basic Data Manipulation Using Generative AI

COURSE

With DataFrames in pandas you can filter, aggregate, join, pivot, and manipulate data efficiently. These operations enable data analysts and scientists to work with datasets for various data-driven tasks. Prompt engineering tools are adept at generating code to make these tasks simple.You will start this course by exploring the configurations you can apply to read in your data. You'll present your problem statement to ChatGPT and explore the use of arguments to configure various aspects of the file reading, such as defining column names, and specifying which columns to include in the DataFrame. Additionally, you will learn how to read data from different sources, including JSON, Excel, and the Clipboard and write files out to these different formats.Next, you'll delve into common DataFrame operations, examine statistics on your data, rename columns, iterate over, and sort your data. As you encounter issues, you will turn to prompt engineering to help debug them.Finally, you'll explore how you can enhance your data using computed columns. You'll harness the power of two essential functions, apply and map, to transform your records. You will also focus on utilizing generative AI for code generation and you will employ the chain-of-thought prompting method to guide the chatbot in generating code effectively.

Prompt Engineering for Data: Combining & Visualizing Data Using Generative AI

COURSE

Combining data is a key data manipulation technique and is well supported in the pandas library. Exploratory data analysis involves data visualization to understand the relationships that exist in your data. Prompt engineering can help you pick the right visualization for viewing and understanding relationships between variables and can also generate code for these visuals.You will start this course by combining data in DataFrames learning techniques to join DataFrames using different constructs such as the inner join, left and right joins, and the full outer join.Next, you will delve into time-series analysis and visualization. You will use prompt engineering help to visualize your time series data to identify trends and patterns.Finally, you will explore data visualization in Python. You will begin by crafting univariate visualizations that display information about a single variable. You'll see that tools such as ChatGPT and Bard can help you pick the right visualizations for different use cases. You will explore bivariate visuals and use Plotly to generate interactive visualizations which are more user-friendly and intuitive.

Prompt Engineering: Ethical Hacking & Generative AI Fusion

COURSE

In our increasingly digital world, the convergence of ethical hacking and generative AI technologies has become a crucial frontier in cybersecurity. As technology advances, so do the methods employed by hackers, making it essential for ethical hackers, or white hat hackers, to stay one step ahead.This course introduces you to the exciting world of ethical hacking and generative AI technologies. You will gain insights into the evolving cybersecurity landscape, learn about the techniques used by both malicious and ethical hackers, and explore how generative AI can be leveraged for both offensive and defensive purposes. By the end of this course, you will be equipped with a solid foundation in ethical hacking and generative AI, enabling you to understand the complex dynamics between security and innovation in the digital age.

Leading Security Teams for GenAI Solutions: Security Implications

COURSE

The introduction of generative AI has created security, privacy, ethical, and moral implications for everyone involved. In this course, you will learn how and why generative AI is being used in security attacks, how to put countermeasures in place to defend against these attacks, and how to navigate and mitigate those attacks from happening. You will also explore the ethical and moral concerns that generative AI has created, how privacy plays a role in those concerns, and how to manage those risks. Then you will discover how generative AI can be leveraged by threat actors to perform data breaches, create malware threats, and coordinate social engineering attacks. Next, you will investigate how generative AI can be used maliciously to perform model manipulation and data poisoning. Finally, you will examine how to enhance protection controls using processes, governance, and ethics, and focus on common considerations for securing AI systems.

Leading Security Teams for GenAI Solutions: Use of Generative AI

COURSE

When using generative artificial intelligence (AI) content within your business, you need to know how to leverage it safely and effectively.In this course, you will learn about techniques used to identify AI-generated content and how to avoid possible misinformation that it can produce. You will investigate deepfakes and learn how to detect them. You will discover how to provide proper attribution when using generative AI content and how to avoid having any copyright issues. Next, you will explore industry use cases for generative AI, and more specifically, discover common use cases for boosting cybersecurity using generative AI. Then you will examine stakeholder considerations and possible generative AI challenges. Finally, you will focus on security protections, security risks, and mitigating risks associated with generative AI. Upon course completion you will be able to confidently take steps to secure your organization when using generative AI solutions.

Prompt Engineering for Django: Learning Django Using Generative AI Help

COURSE

Django is a high-level, open-source web framework for building robust and scalable web applications using the Python programming language. Django comes equipped with a rich set of built-in features, including an object-relational mapping (ORM) system for database interactions, a powerful templating engine, and a secure authentication system.You will start this course by diving into Django and learning the model-template-view (MTV) architecture that Django uses. Next, you will install Django and create a basic app, seeking the help of generative AI tools such as ChatGPT and Google Bard to set up a Django project and explore its basic functionality. Then, you will create your own app within the project, focusing on the uses for and responsibilities of the automatically generated files. Finally, you will build a simple web app using Django, starting with a basic view that renders HTML templates that you can access at a URL path. You will learn to include static assets, such as stylesheets and images, and you will deal with misdirection from generative AI tools.

Prompt Engineering for Git: Working with Remote Repositories & Generative AI

COURSE

GitHub, in conjunction with Git, provides a powerful framework for collaboration in software development. Git handles version control locally, while GitHub extends this functionality by serving as a remote repository, enabling teams to collaborate seamlessly by sharing, reviewing, and managing code changes.In this course, you will begin by setting up a GitHub account and authenticating yourself from the local repo using personal access tokens. You will then push your code to the remote repository and view the commits. Next, you will explore additional features of Git and GitHub using generative AI tools as a guide. You will also create another user to collaborate on your remote repository, and you'll sync changes made by other users to your local repo. Finally, you will explore how to merge divergent branches. You will discover how to resolve a divergence using the merge method with help from ChatGPT and bring your local repository in sync with remote changes.

Prompt Engineering: Generative AI for Reconnaissance

COURSE

In today's rapidly evolving digital landscape, the convergence of ethical hacking and generative AI has emerged as a powerful force in countering cybersecurity threats. As malicious hackers adapt and exploit advanced technologies, the need for innovative defenses becomes paramount. This course explores the cutting-edge domain of generative artificial intelligence (AI) and reconnaissance techniques. In this course, you will explore reconnaissance techniques leveraging AI's potential and apply passive and active reconnaissance techniques. Next, you'll explore the challenges and solutions associated with reconnaissance and generative AI and consider the methods used to protect against it. Finally, you'll explore how ethical hackers can use the information obtained during reconnaissance.

Prompt Engineering: Generative AI for Malware & Social Engineering

COURSE

In the dynamic digital landscape, cybersecurity is more important than ever. Malicious actors are well aware that people are often the weakest link in an organization's cybersecurity posture. Ethical hackers commit significant effort into penetration testing and strategizing to combat malware and social engineering efforts executed by threat actors. This course journeys deep into the techniques and methodologies employed by ethical hackers to uncover malware and educate users in the ongoing battle against social engineering and how generative artificial intelligence (AI) can assist them in this pursuit. You'll start by exploring the types of malware and social engineering principles and techniques. With this foundation, you'll explore how generative AI can be used to help detect malware and social engineering attacks. You'll discover potential damage that can result from such attacks along with countermeasures that can be taken and then you'll explore proactive efforts to train users about social engineering attacks. You'll investigate how to use generative AI and prompt engineering to counter malware and social engineering, and you'll proceed to explore how malware and social engineering evolve over time. Lastly, you'll examine some real-world case studies that feature malware and social engineering attacks.

Prompt Engineering: Generative AI for Scanning & Enumeration

COURSE

In today's dynamic and evolving digital terrain, the need for robust cybersecurity measures has never been more critical. As technology continues to advance, hackers are constantly adapting their methods, making it imperative for ethical hackers to stay one step ahead. This course explores the convergence of ethical hacking and generative AI, specifically focusing on the scanning and enumeration phase of the ethical hacking process. You will begin by examining the network scanning phase of the ethical hacking process and how generative AI and prompt engineering enhance this process. With a solid foundation, you will then discover ways that prompt engineering can optimize scanning, the risks and benefits of using AI-assisted scanning, and how generative AI can boost various scanning techniques. Finally, you will take a look at realistic examples involving scanning and enumeration techniques, focusing on the role that generative AI plays in these scenarios.

Prompt Engineering: Generative AI for System Hacking

COURSE

In a world increasingly reliant on interconnected systems, safeguarding them from malicious actors is critical. Ethical hackers are key to maintaining a robust cybersecurity posture, and must commit to continuous improvement to stay ahead of malicious actors.This course provides an immersive journey into the techniques and methodologies employed by ethical hackers to protect and secure systems while focusing on generative artificial intelligence (AI) as a transformative resource in the hacking toolchain.You will start by exploring the fundamental concepts and methodologies that underpin system hacking and how generative AI can enhance hacking techniques and countermeasures. With this foundation in place, you'll investigate how to enhance attacks with generative AI, protect against system hacking by detecting vulnerabilities, use AI to drive penetration tests, and recognize the impact generative AI has on system hacking. Finally, you'll explore real-world system hacking scenarios and reflect on the transformative potential of generative AI.

Prompt Engineering: Mobile Platform Security in the GenAI Era

COURSE

Mobile devices are involved in vast facets of our daily lives, and as these devices and AI evolve, they become powerful tools and vulnerable gateways. With AI-driven functionalities at the forefront of mobile technology innovation, understanding the security implications and nuances is paramount. In this course, explore common mobile platform vulnerabilities and utilize generative AI to bolster mobile security measures. Next, learn how to execute mobile attacks with generative AI, evaluate mobile security measures, and use generative AI to identify and patch app vulnerabilities. Finally, examine the impact of AI-enhanced mobile hacking, the importance of regular updates and patches, and real-world mobile hacking case studies. Upon completion, you'll be able to outline the intricate landscape of mobile security and the implications of integrating generative AI.

Querying SQL Databases: Using Generative AI Tools to Filter & Group Data

COURSE

In structured query language (SQL), filtering and grouping are fundamental operations that enable precise control and analysis of data. Begin this course by filtering your data using SQL queries. You will learn how to use the WHERE clause with comparison and logical operators to create predicates and how to use the LIKE and IN keywords for filtering. Then you will discover how to read data from a CSV file into a MySQL table using the MySQL workbench. Next, you will work with subqueries to help execute queries using data from multiple tables and you will explore foreign-key constraints to maintain referential integrity. You will examine grouping and aggregation of your data, including simple numeric aggregations like COUNT, SUM, and AVG. Finally, you will perform basic string manipulation and math operations on table columns, divide your data by categorical columns and perform aggregations for each category, and filter the results of grouped and aggregated tables.

Using Generative AI Tools to Learn Python

COURSE

Python is a general-purpose programming language used for web development, machine learning, game development, and education. It is known for its simplicity, readability, and large community of users and resources.Begin this course by exploring Python with the help of AI tools like ChatGPT, focusing on the importance of prompt engineering. You will install Python using the Anaconda distribution and write code in Python using Jupyter notebooks, allowing you to quickly prototype and get feedback. Next, you will discover variables and data types and work with strings, integers, and floats. You will encounter errors as you program and learn how to debug your code using generative AI tools. Finally, you will examine Python data structures such as lists, tuples, sets, and dictionaries.This course will provide you with a solid knowledge of the basics of Python and confidence in using generative AI tools to help you with your learning journey.

ChatGPT's Impact on Various Industries

COURSE

In the spirit of exploring the exciting possibilities of generative AI, this course was built using several AI technologies alongside Skillsoft’s trusted design methodologies. Generative AI was used to draft the curriculum plan and on-screen text, while AI text-to-speech services were used for narration. In addition, generative AI was used to produce the course assessment and AI assistive technologies helped translate the course captions into multiple languages. Begin this course by exploring the various industries that are using ChatGPT, focusing on the impact of ChatGPT on their business processes and the ethical considerations and challenges of using this technology. Then discover the enormous potential of ChatGPT in shaping the future of work and for solving global challenges like climate change. Next, examine how to protect sensitive intellectual property while using ChatGPT. Finally, investigate the role of government and industry in regulating this powerful AI.

Ethical, Privacy, & Intellectual Property Considerations for ChatGPT

COURSE

In the spirit of exploring the exciting possibilities of generative AI, this course was built using several AI technologies alongside Skillsoft's trusted design methodologies. Generative AI was used to draft the curriculum plan and on-screen text, while AI text-to-speech services were used for narration. In addition, generative AI was used to produce the course assessment and AI assistive technologies helped translate the course captions into multiple languages. In this course, we will define ethical AI and explore the ethical considerations and challenges surrounding advanced AI models. Next, we will examine the potential consequences of using AI and ChatGPT, the impact on society and culture, and the importance of transparency and accountability. Then we will investigate the impact of AI models on privacy and security, the ethical considerations for developing and deploying AI models, and the importance of understanding the risks involved in sharing sensitive intellectual property. Finally, we will discover the roles of government, industry, and society in regulating AI models and how to protect company data.

The Role of ChatGPT in Shaping Our Future

COURSE

In the spirit of exploring the exciting possibilities of generative AI, this course was built using several AI technologies alongside Skillsoft's trusted design methodologies. Generative AI was used to draft the curriculum plan and on-screen text, while AI text-to-speech services were used for narration. In addition, generative AI was used to produce the course assessment and AI assistive technologies helped translate the course captions into multiple languages. Begin this course with insightful, forward-thinking conversations on AI's potential influence across sectors including high tech, education, and government. Then you will apply concepts of generative AI to practical scenarios in everyday life. Next, you will critically explore the ethical dimensions of AI. Finally, you will examine the evolving nature of work in an AI-integrated landscape and hypothesize about the progression of generative AI in the next 5 to 10 years. Be prepared for a journey of continuous learning and future thinking that transcends traditional classroom boundaries.

Mastering ChatGPT Prompts: ChatGPT Prompt Engineering Examples & Use Cases

COURSE

In the spirit of exploring the exciting possibilities of generative AI, this course was built using several AI technologies paired alongside Skillsoft's trusted design methodologies. Generative AI was used to draft the curriculum plan and on-screen text, while AI text-to-speech services were used for the narration. In addition, generative AI was used to produce the course assessment and AI assistive technologies helped translate the course captions into multiple languages. Practical prompt engineering is the process of designing refined input prompts to generate responses for natural language processing applications. This involves consideration of prompt factors and various techniques to improve model performance and accuracy. Through this course, learn about practical prompt engineering and the types of prompts used in ChatGPT. Discover how to write effective prompts for ChatGPT and prompt use in real-world applications. Next, compare prompt types and their uses, explore the ethical considerations of using prompts in ChatGPT, and the impact of prompts on the accuracy of ChatGPT's responses. Finally, examine the relationship between prompts and the training data used to develop ChatGPT. After course completion, you'll be able to apply prompt engineering practices to develop effective prompts for ChatGPT.

An Introduction to GPT Models

COURSE

Generative Pre-trained Transformer (GPT) models are advanced artificial intelligence (AI) systems designed to understand and generate human-like text based on the information they've been trained on. These models can perform a wide range of language tasks, from writing stories to answering questions, by learning patterns in vast amounts of text data.In this course, you will dive into the world of GPT models and the foundational models that are pivotal to the development of the GPT-n series. You will gain an understanding of the terminology and concepts that make GPT models outstanding in performing natural language processing tasks. Next, you will explore the concept of attention in language models and explore the mechanics of the Transformer architecture, the cornerstone of GPT models.Finally, you will explore the details of the GPT model. You will discover methods used to adapt these models for particular tasks through supervised fine-tuning (SFT), reinforcement learning from human feedback (RLHF), and techniques such as prompt engineering and prompt tuning.

ChatGPT & Its Practical Use Cases

COURSE

In the spirit of exploring the exciting possibilities of generative AI, this course was built using several AI technologies paired alongside Skillsoft’s trusted design methodologies. Generative AI was used to draft the curriculum plan and on-screen text, while AI text-to-speech services were used for the narration. In addition, generative AI was used to produce the course assessment and AI assistive technologies helped translate the course captions into multiple languages. What is ChatGPT and what can it do? This groundbreaking technology has revolutionized natural language processing and its applications are far-reaching. In this course, you will discover ChatGPT, focusing on its purpose and key features. Then you will compare its abilities to other language models. Next, you will explore the history of language models and artificial intelligence (AI) and the different uses of ChatGPT, including how it can be used in real-world applications. Finally, you will examine the potential benefits and limitations of using ChatGPT, as well as the ethical considerations surrounding its use. By the end of this course, you will be able to describe the purpose of ChatGPT, outline its key features, and consider its potential impact on society and culture.

The Role of ChatGPT in Shaping Our Future

COURSE

In the spirit of exploring the exciting possibilities of generative AI, this course was built using several AI technologies alongside Skillsoft’s trusted design methodologies. Generative AI was used to draft the curriculum plan and on-screen text, while AI text-to-speech services were used for narration. In addition, generative AI was used to produce the course assessment and AI assistive technologies helped translate the course captions into multiple languages. Begin this course with insightful, forward-thinking conversations on AI's potential influence across sectors including high tech, education, and government. Then you will apply concepts of generative AI to practical scenarios in everyday life. Next, you will critically explore the ethical dimensions of AI. Finally, you will examine the evolving nature of work in an AI-integrated landscape and hypothesize about the progression of generative AI in the next 5 to 10 years. Be prepared for a journey of continuous learning and future thinking that transcends traditional classroom boundaries.

GENERATIVE AI IS MORE THAN A TECHNOLOGY - IT'S A REVOLUTION

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