Faysal Aziz

GenAI and Prompt Engineering

Increasing and streamlining productivity with ChatGPT, Co-Pilot and Google Gemini

FA-0228 · 2-day

Agentic & Generative AI

Introduction

This is a comprehensive **2-day** course on harnessing the power of Generative AI (GenAI) to supercharge productivity across various domains, with a special focus on finance. In the digital era, the ability to streamline workflows, generate insights, and automate tasks is paramount.

Tools like ChatGPT and Gemini have revolutionized how professionals approach problem-solving, content creation, and data analysis. This course delves into the nuances of these AI models, including the differences between GPT-3, GPT-3.5, GPT-4, and the capabilities of Gemini and Gemini Advanced.

You will learn the art of prompt engineering to interact effectively with AI, enhancing your productivity and efficiency. We'll also explore the integration of AI tools like GitHub Copilot in coding and development workflows. Whether you're looking to elevate your personal productivity or seeking to implement AI solutions in your organization, this course offers the knowledge and skills to leverage GenAI effectively.

Learning outcomes

Participants will:

- Understand the foundational concepts of GenAI and its applications in various industries, with an emphasis on finance.
- Differentiate between GPT-3, GPT-3.5, GPT-4, Gemini, and Gemini Advanced in terms of capabilities and use cases.
- Master prompt engineering techniques to maximize efficiency and output quality when interacting with AI models.

- Explore the application of ChatGPT and Gemini in automating and optimizing financial analysis, reporting, and forecasting.
- Learn to integrate AI tools like GitHub Copilot in development projects for code suggestion, error correction, and documentation.
- Develop strategies to implement GenAI solutions in business processes to enhance productivity and innovation.
- Gain insights into managing AI ethics and bias to ensure responsible use of GenAI technologies.

Prerequisites

- Basic familiarity with AI and machine learning concepts.
- Interest in productivity tools and automating workflows.
- For sections on GitHub Copilot, basic programming knowledge is beneficial.

Training outline

1. Overview of Generative AI

1. Introduction to Generative AI and its transformative potential across sectors.
2. Historical evolution: From GPT-3 to GPT-4, highlighting enhancements and new capabilities.
3. Understanding Gemini and Gemini Advanced: Features, strengths, and how they compare with GPT versions.

2. Deep Dive into ChatGPT and Gemini

1. Architecture and technology behind ChatGPT and Gemini: How they learn and generate responses.
2. Comparing GPT-3, GPT-3.5, and GPT-4: Performance metrics, accuracy, and application suitability.
3. Specifics of Gemini and Gemini Advanced: Customization options, privacy features, and integration capabilities.

3. Prompt Engineering for Enhanced Productivity

1. Fundamentals of prompt engineering: Crafting effective prompts to guide AI responses.
2. Advanced techniques: Refining prompts for complex tasks, iterative prompting, and zero-shot vs. few-shot learning.
3. Hands-on exercises: Creating prompts for content creation, data analysis, and automated responses.

4. Application in Finance

1. Leveraging GenAI for financial forecasting, market analysis, and risk assessment.
2. Automating financial reporting and compliance documentation with precision and speed.
3. Case studies: Successful integration of GenAI in banking, investment, and insurance sectors.

5. Integrating AI in Development with GitHub Copilot

1. Overview of GitHub Copilot: Capabilities, setup, and how it works alongside developers.
2. Improving coding efficiency: Using Copilot for code suggestions, debugging, and generating documentation.
3. Best practices: Fine-tuning Copilot's suggestions to fit project requirements and coding standards.

6. Implementing GenAI Solutions in Business

1. Strategies for adopting GenAI technologies to streamline operations and foster innovation.
2. Overcoming challenges: Addressing resistance, ensuring data privacy, and managing dependencies.
3. Developing a roadmap for GenAI integration: From pilot projects to full-scale implementation.

7. Ethics, Bias, and Responsible AI Use

1. Ethical considerations in using GenAI for productivity: Transparency, accountability, and fairness.
2. Identifying and mitigating bias in AI-generated content and analysis.
3. Fostering an ethical AI culture in organizations: Policies, training, and stakeholder engagement.

8. Looking Ahead: The Future of Productivity with GenAI

1. Emerging trends in GenAI: Anticipated advancements in model capabilities and new applications.
2. Preparing for the future: Skills development, continuous learning, and staying ahead of AI innovations.
3. Interactive discussion: Envisioning the long-term impact of GenAI on professional and personal productivity.

9. Hands-On Projects and Interactive Sessions

1. Guided projects: Participants will apply learned techniques in real-world scenarios, using ChatGPT and Gemini for tasks such as report generation, financial modeling, and creative content creation.
2. Recap of the key insights and skills acquired during the course, emphasizing how these can be applied to boost productivity in various domains, especially finance.

3. Strategies for continuous improvement and staying updated with the latest developments in GenAI technologies.
4. Encouragement to experiment and innovate with AI tools in participants' respective fields, fostering a culture of continuous learning and adaptation.
5. Closing Q&A session to address any remaining questions, share feedback, and discuss the potential future landscape of AI in enhancing productivity.

This course is meticulously designed to empower you with the knowledge and practical skills needed to leverage the latest in GenAI for elevating productivity. Through a mix of theory, hands-on practice, and project-based learning, participants will leave well-equipped to apply AI solutions like ChatGPT, Gemini, and GitHub Copilot in their professional endeavors.

Beyond the immediate skills and knowledge, this course aims to inspire a forward-thinking mindset, preparing you to navigate and lead in the evolving landscape of AI-enhanced workflows and innovation.

© 2026 Faysal Aziz · Kuala Lumpur