Training: AWS
Generative AI Essentials on AWS

TRAINING GOALS:

In this course, you will learn about the fundamental concepts, methods, and strategies for using generative AI. You will gain a solid understanding of use cases where generative AI can provide solutions and address business needs. Additionally, you will learn about practical insights into technologies related to generative AI and how you can use those technologies to solve real-world problems. By the end of the course, you will explore project planning and how to discuss implementation of generative AI in your organization.

Course objectives

In this course, you will learn to:

- Summarize generative AI concepts, methods, and strategies
- Discuss the appropriate use of generative AI and machine learning and their technologies
- Describe how to use generative AI responsibly and safely
- Recognize the types of generative AI solutions with specific use cases
- Explain implementation and project planning of generative AI to your organization

Intended audience

This course is intended for those with limited prior knowledge of generative AI:

- Business analysts
- IT supports
- Marketing professionals
- Product or project managers
- Line-of-business or IT managers
- Sales professionals

CONSPECT:

Compendium Centrum Edukacyjne Spółka z o.o.
ul. Tatarska 5, 30-103 Kraków, tel.: (12) 298 47 77
ul. Postępu 18B, 02-676 Warszawa, tel.: (22) 417 41 70

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- Module 1: Introducing Generative AI
  - Generative AI explained
  - Foundation models
  - AWS generative AI services
  - Demo: Generative AI solution
- Module 2: Exploring Generative AI Use Cases
  - Identify suitable use cases
  - Generative AI applications and use cases
  - Explore generative AI use case scenarios
  - Use case for class
- Module 3: Essentials of Prompt Engineering
  - Introduction to prompt engineering
  - Prompt design best practices
  - Advanced prompting strategies
  - Model settings and parameters
  - Hands-on Lab: Optimizing Slogan Generation with Amazon Bedrock
- Module 4: Responsible AI Principles and Considerations
  - Introduction to responsible AI
  - Core dimensions of responsible AI
  - Generative AI considerations
  - Hands-on Lab: Implementing Responsible AI Principles with Amazon Bedrock Guardrails
- Module 5: Security, Governance, and Compliance
  - Security overview
  - Adverse prompts
  - Generative AI security services
  - Governance
  - Compliance
- Module 6: Implementing Generative AI Projects
  - Introduction – Generative AI application
  - Define a use case
  - Select a foundational model
  - Improve performance
  - Evaluate results
  - Deploy the application
  - Demo: Amazon Q Business
- Module 7: Integrating Generative AI into the Development Lifecycle

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- Introduction
- Hands-on Lab: Capstone – Creating a Project Plan with Generative AI

- Module 8: Course Wrap-up
  - Next steps and additional resources
  - Course summary

REQUIREMENTS:

None

Difficulty level

CERTIFICATE:

The participants will obtain certificates signed by AWS (course completion). This course also helps you prepare for the AWS Certified AI Practitioner (AIF-C01) exam and this way gain the AWS Certified AI Practitioner title – foundational level. AWS certification exams are offered at Pearson Vue test centers worldwide https://home.pearsonvue.com/Clients/AWS.aspx

TRAINER:

AWS Authorized Instructor (AAI)

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