

SAP Certified Associate - SAP Generative AI Developer

Course Description:

This course provides an in-depth exploration of SAP's Business AI portfolio, covering AI fundamentals, SAP Business AI's role in enterprise solutions, and advanced AI capabilities within SAP. Learners will gain insights into AI integration across SAP applications, ethical AI principles, large language models (LLMs), AI model training and deployment, and generative AI applications within SAP's ecosystem.

Audience Profile:

This course is designed for:

- IT professionals and SAP consultants interested in AI-driven SAP solutions
- Business analysts seeking to understand AI capabilities in SAP applications
- Data scientists and AI engineers looking to integrate AI within SAP systems
- SAP developers working on AI-powered applications
- Enterprise decision-makers evaluating AI adoption within their organizations

Prerequisites:

- Basic understanding of enterprise software and cloud computing
- Familiarity with SAP solutions is beneficial but not required
- Foundational knowledge of artificial intelligence and machine learning concepts

Course Objectives:

After completing this course, learners will be able to:

- Outline the fundamentals of AI and its role in SAP's business solutions
- Demonstrate an understanding of SAP Business AI and its integration with SAP Cloud ERP
- Explore AI-powered enhancements in SAP's enterprise applications
- Explain SAP's approach to LLMs, model training, and inferencing
- Understand generative AI applications, including prompt engineering techniques
- Describe AI model deployment and monitoring within SAP AI Core and SAP AI Launchpad
- Evaluate ethical considerations and responsible AI use in business applications

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Module 1 – Exploring the SAP AI Portfolio

Unit 1: Outlining Artificial Intelligence (AI)

- Welcoming You to Explore Business AI with SAP
- Summarizing AI

Unit 2: Introducing SAP Business AI

- Discovering the Fundamentals of SAP Business AI
- Transforming Business Applications and Platforms with Generative AI
- Building on a Trusted AI Foundation
- Using SAP Business AI Responsibly

Unit 3: Introducing Joule

- Getting to Know Joule, SAP's Next-Generation AI Copilot

Unit 4: Exploring SAP Business AI

- Getting Familiar with AI Foundation
- Outlining SAP Business AI Integration into Cloud
- Getting Familiar with the AI Ecosystem Partnerships and Investments

Unit 5: Being Equipped to Tell the SAP Business AI Story Including Tangible Examples

- Exploring the Potential of SAP Business AI
- Exploring the Strategic Roadmap for SAP Business AI

Module 2 - SAP AI Core and SAP AI Launchpad

Unit 1: Onboarding SAP AI Core and SAP AI Launchpad

- Configuring SAP AI Core and SAP AI Launchpad

Unit 2: Describing Model Training Operations

- Training an ML Model

Unit 3: Describing Model Inferencing Operations

- Serving an ML Model

Module 3 - Navigating Large Language Models Fundamentals and Techniques for Your Use Case

Unit 1: Describing SAP's Approach to Large Language Models (LLMs)

- Describing LLMs
- Describing SAP's Generative AI Strategy

Unit 2: Explaining Product Development for LLM Use Cases at SAP

- Starting From Ideation to Productization
- Integrating LLMs into Business Applications

Unit 3: Introducing Techniques for Maximizing LLM Performance for Your Use Case

- Identifying the Appropriate Optimization Technique for Different LLM Use Cases
- Understanding Principles of Prompt Engineering

Unit 4: Applying Retrieval Augmented Generation (RAG) and Fine-Tuning Strategies to Improve LLM Performance

- Identifying RAG Use Cases
- Introducing Fine-Tuning
- Optimizing LLM Performance Using Agents

Unit 5: Evaluating and Testing LLMs

- Evaluating and Testing Your LLM Use Case

Module 4 - Solving Business Problems Using Prompts and LLMs in Generative AI Hub

Unit 1: Creating Basic Prompts in Generative AI Hub

- Exploring Generative AI Hub
- Explaining Generative AI Hub Applications
- Developing Basic Prompts for Common Queries

Unit 2: Leveraging the Power of LLMs Using SDK for Generative AI Hub

- Identifying the Need for Using Generative-AI-Hub-SDK
- Using Generative-AI-Hub-SDK to Interact with Orchestration Services
- Using Generative-AI-Hub-SDK to Leverage the Power of LLMs
- Using Generative-AI-Hub-SDK to Evaluate Prompts

Unit 3: Refining AI Responses Using Advanced Prompt Engineering Techniques

- Describing Techniques for Refining Prompts

- Implementing Advanced Prompt Engineering Techniques

Unit 4: Selecting Large Language Models in Generative AI Hub

- Exploring Different Large Language Models
- Selecting the Suitable LLM