

AWS AI Practitioner

Course syllabus · Live online · Foundational

Understand AI, machine learning and generative AI concepts and the AWS services behind them, and prepare for the AWS Certified AI Practitioner exam.

Live training	30 hours in total
Weekday batch	3 weeks · Monday to Friday, 2 hours per day (10 hours a week)
Weekend batch	4 weeks · Saturday and Sunday, 4 hours each day (8 hours a week)
Self-practice	about 15 hours in total (labs, assignments, revision)
Total effort	about 45 hours including self-practice
Mode	Live instructor-led online sessions · session recordings after each class · small batches
Trainer	Ameya Vaidya
Batch start	Shared by our counselor
Batch timings	Weekday / weekend options, shared by our counselor
Course fee	Shared by our counselor (varies with current offers)

Who is this for?

Students, business and technical professionals, and anyone who wants AI literacy on AWS. No coding required.

Prerequisites

None. Basic cloud awareness helps (Cloud Practitioner recommended).

What you will learn

- Explain core AI, ML and deep-learning concepts
- Describe the ML lifecycle and common AWS AI/ML services
- Understand generative AI, foundation models and prompt engineering
- Apply responsible-AI, security and governance principles
- Choose the right AWS AI service for a business use case

Tools and technologies

Amazon SageMaker · Amazon Bedrock · Amazon Q · Rekognition · Comprehend · Transcribe · Polly

Detailed syllabus

#	Module	Hours	Topics	Hands-on
1	AI and ML Fundamentals	5	• AI vs ML vs deep learning • Supervised, unsupervised and reinforcement learning • Data, features and model training • Model evaluation metrics	Explore SageMaker Canvas with a sample dataset
2	The ML Development Lifecycle	4	• Data collection and preparation • Training, tuning and deployment • MLOps concepts • Monitoring and drift	Walk through a SageMaker pipeline

#	Module	Hours	Topics	Hands-on
3	AWS AI Services	5	• Vision: Rekognition, Textract • Language: Comprehend, Translate, Transcribe, Polly, Lex • Personalization and forecasting • Choosing managed AI services	Try Rekognition and Comprehend
4	Generative AI Fundamentals	5	• Foundation models and LLMs • Tokens, embeddings and context • Amazon Bedrock and Amazon Q • Prompt engineering basics	Prompt experiments in the Bedrock playground
5	Applications of Foundation Models	4	• Retrieval-Augmented Generation (RAG) • Fine-tuning vs prompting • Evaluating model output • Agents overview	-
6	Responsible AI, Security and Governance	4	• Bias, fairness, transparency and explainability • Data privacy and security on AWS • Compliance and governance • Guardrails	-
7	Exam Preparation	3	• Exam format and strategy • Domain revision • Mock test with review	Mock test
	Total live hours	30		

Projects

- AI use-case recommendation report
- Prompt-engineering playbook

Assessment

Module quizzes and a full-length mock exam.

Certification

Prepares you for the AWS Certified AI Practitioner exam.

What is included

- Live instructor-led online sessions
- Hands-on labs and assignments
- Session recordings after each class
- Doubt-solving support
- Course completion certificate
- Small interactive batches
- Unpaid internship opportunities

Our promise: we do not offer guaranteed-placement claims. We focus on building genuine skills so you are capable of clearing interviews and doing the job. Unpaid internship opportunities are available for practical exposure. Fees and batch dates vary with current offers, so please confirm them with our counselor. This syllabus is indicative and may be updated to reflect industry changes.

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