NEW HORIZON COLLEGE OF ENGINEERING

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Event: Workshop on "AWS AI Practitioner"

Venue: Falconry Seminar Hall Time: 10:00 AM–4:30PM



# Workshop Report: AWS AI Practitioner

**New Horizon College of Engineering**

**Department of Computer Science and Engineering (Data Science)**

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The Department of Computer Science and Engineering (Data Science), New Horizon College of Engineering, in association with the IEEE NHCE Student Branch, the Computer Society of India, and the IEEE Biometrics Council, organized a workshop titled “AWS AI Practitioner” on 16th November 2026 from 10:00 AM to 4:30 PM for 5th semester students. The session was delivered by Dr. Vijayanand K V, Sr. Trainer, CloudThat Technologies, Bengaluru.

The primary objective was to introduce students to the fundamentals of artificial intelligence, machine learning, and generative AI, and to show how these are delivered as services on the AWS cloud. The workshop also prepared students for the AWS Certified AI Practitioner certification and helped them see how cloud AI skills connect to industry roles.

## Fundamentals of AI, Machine Learning, and Generative AI

The first part of the workshop built the conceptual base for working with AI on the cloud. The main points covered were:

- **AI, ML, and deep learning:** how the three differ, with everyday examples of each.
- **Machine learning lifecycle:** data collection, preparation, training, evaluation, deployment, and monitoring.
- **Types of learning:** supervised, unsupervised, and reinforcement learning, and the problems each suits.
- **Model evaluation:** common metrics, overfitting and underfitting, and why data quality drives results.
- **Generative AI:** foundation models, large language models, tokens, embeddings, and prompt engineering.
- **Retrieval and customisation:** retrieval-augmented generation (RAG), fine-tuning, and when to use each.

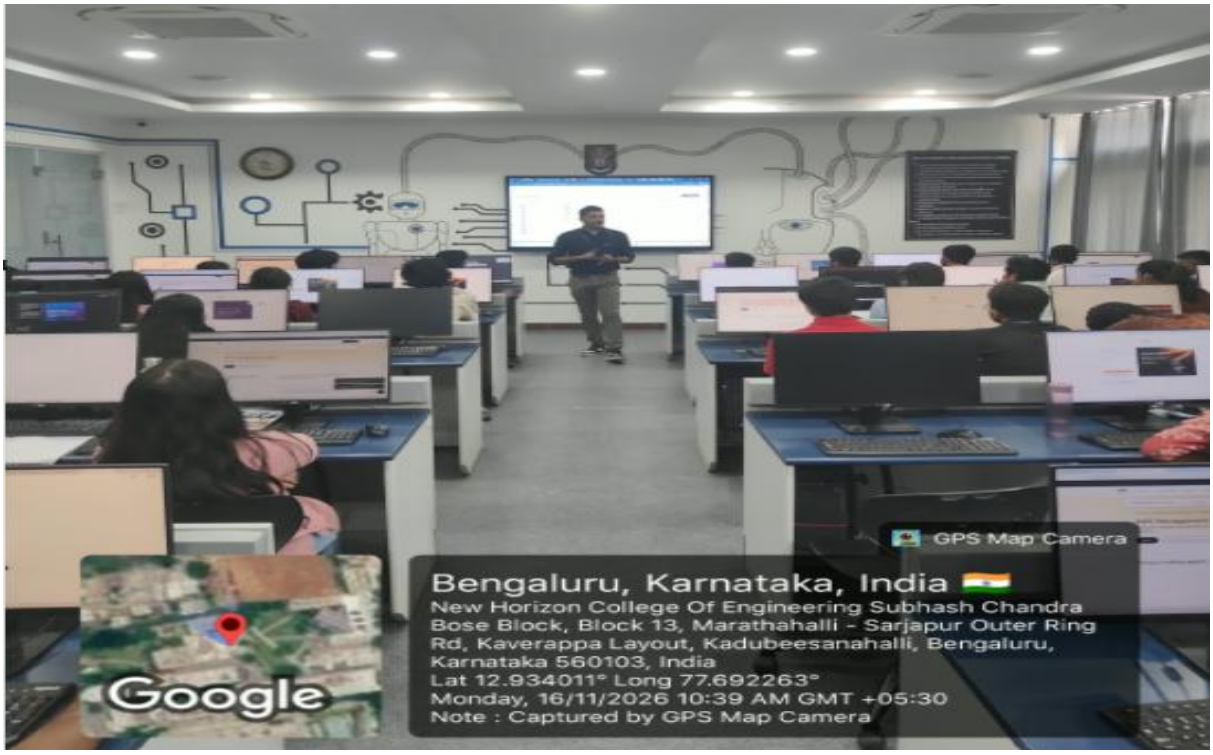
## AWS AI Services, Responsible AI, and Certification Guidance

The second part of the session focused on the AWS tools used to build AI applications and on the practices expected of industry professionals:

- **Generative AI on AWS:** an overview of Amazon Bedrock and Amazon Q, and how foundation models are accessed through managed services.

- **ML platform:** Amazon SageMaker for building, training, and deploying models.
- **Ready-to-use AI services:** Amazon Rekognition, Comprehend, Transcribe, Polly, Translate, Textract, and Lex for vision, language, speech, and chatbot tasks.
- **Responsible AI:** fairness, bias, transparency, explainability, and safe use of AI systems.
- **Security and governance:** the AWS shared responsibility model, IAM, data privacy, and compliance in AI workloads.
- **Certification and careers:** the structure of the AWS Certified AI Practitioner exam, preparation strategy, and growing roles in cloud, AI, and data science.

## Event Photographs






## Common Challenges, Interaction, and Outcome

The speaker addressed common challenges faced by beginners in AI and cloud computing, such as limited awareness of how AI services are packaged on the cloud, difficulty choosing between building a model and using a managed service, and uncertainty about preparing for industry certifications. Students were advised to practise on the AWS free tier, build small projects, and use official learning material for certification preparation.

The session was interactive, and students engaged with the speaker on questions about AI services, generative AI applications, certification preparation, and career paths in cloud and AI.

The workshop helped students understand how AI concepts translate into real cloud services and what skills the industry expects. It motivated them to pursue the AWS Certified AI Practitioner certification and to apply cloud AI tools in their academic projects. The session also strengthened the link between the department and industry professionals.

Convener

HOD-CSE-DS

Dr. B Swathi