

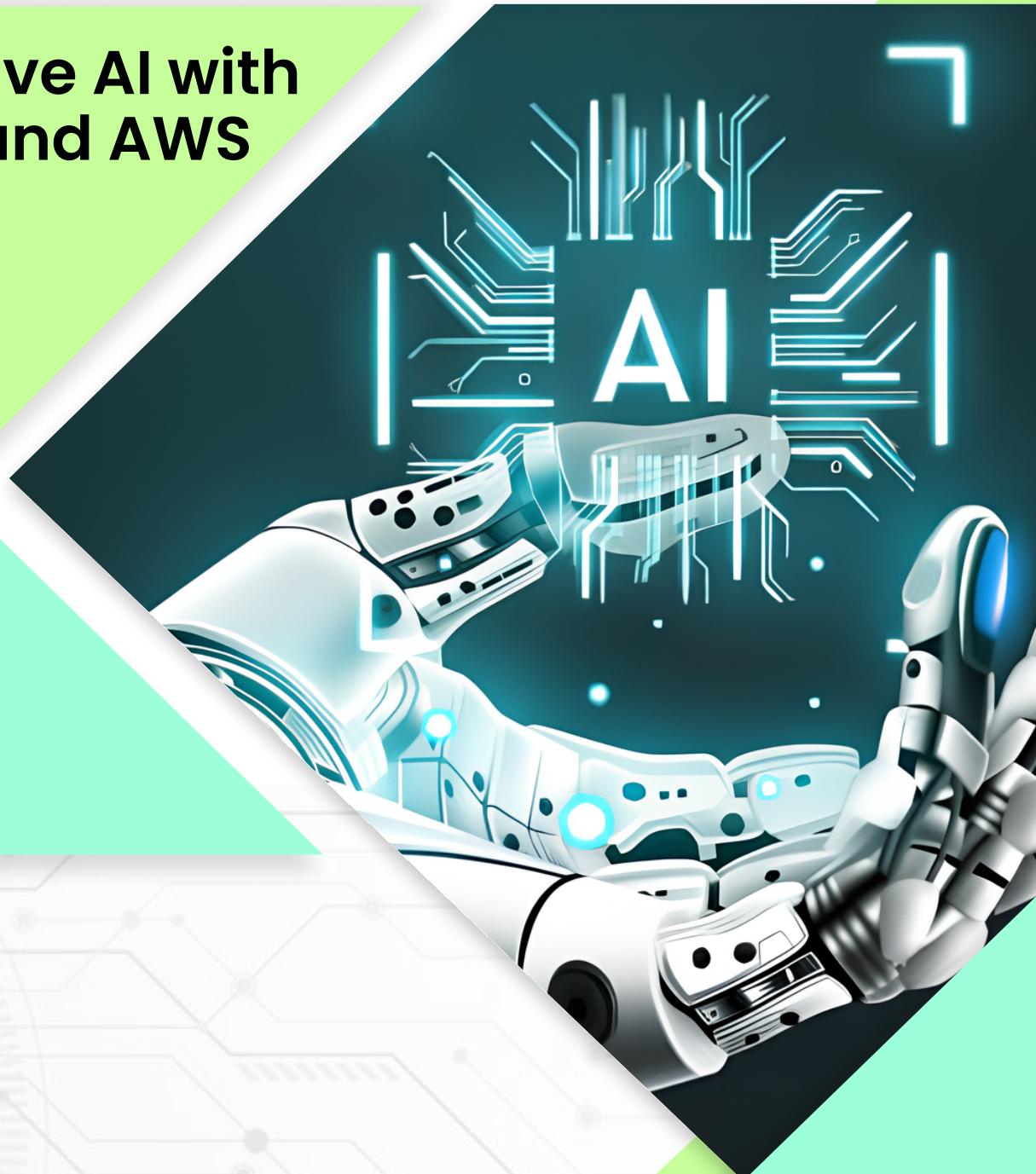


KloudStac

Prep for future tech careers

Generative AI with python and AWS

Program



Generative AI with python and AWS is one of Industry's first programs, training participants on how to build production grade cloud native apps with Generative AI tools/ services & technologies and deploy & run Generative AI models on cloud. AWS is the leading cloud platform for building, deploying and managing Generative AI models like Large Language Models and Diffusion Models and participants learn the practical aspects of working with Generative AI with python and AWS Cloud.

Duration

2.5 months/55 hrs (including Theory, Hands-on labs).

Capstone project of upto 20 hrs can be provided as additional module.

Delivery Mode

Online/ Offline

What we teach ?

Module Name	Course Topic
Python for AI/ML	Python basics- refresher (incl Numpy, Pandas, Scikit-learn, Matplotlib, others)
Python for AI/ML	Python Code mgt in Github
Python for AI/ML	Keras & Tensorflow for AI/ML
Python for AI/ML	Pytorch for AI/ML
NLP Fundamentals	NLP Pipeline
NLP Fundamentals	Lab: NLP pipeline & chatbot creation
NLP Fundamentals	Deep Learning for NLP
NLP Fundamentals	Transformers & attention for NLP
NLP Fundamentals	Vector Database with AWS OpenSearch Service
NLP Fundamentals	Prompt Engineering and in-context learning with GPT4 & Google BARD
Generative AI fundamentals	RLHF: Reinforcement Learning from Human Feedback
Generative AI fundamentals	Diffusion Models for Generative Computer Vision
Generative AI fundamentals	Large Language Models for Generative NLP
Generative AI fundamentals	LLM Finetuning with Parameter efficient finetuning methods
Generative AI fundamentals	Evaluation of LLM models
Generative AI fundamentals	Open source and closed source LLMs
Generative AI Tools/Systems	ChatGPT plug-ins incl code interpreter, Github copilot
Generative AI on AWS	AWS Sagemaker & Sagemaker Jumpstart & AWS CodeWhisperer
Generative AI on AWS	Lab: Zero-shot prompting for the Flan-T5 foundation model
Generative AI on AWS	Lab: Efficient LLM FineTuning with Custom Examples
Generative AI on AWS	Retrieval Augmented Generation
Generative AI on AWS	Lab: Question answering using Retrieval Augmented Generation
Generative AI on AWS	Lab: AWS Text-to-Image and Text Summarization using Foundation Model
Generative AI on AWS	Building LLM based apps with AWS Bedrock
Generative AI on AWS	Finetuning Llama 2 Open source LLM on Sagemaker with QLoRA
Generative AI on AWS	Lab: Building chatbot with open source LLM using AWS Bedrock
Generative AI on AWS	LLM Cost, performance and pricing on AWS
Generative AI on AWS	LLMOps

Who should attend ?

- In our batches for students

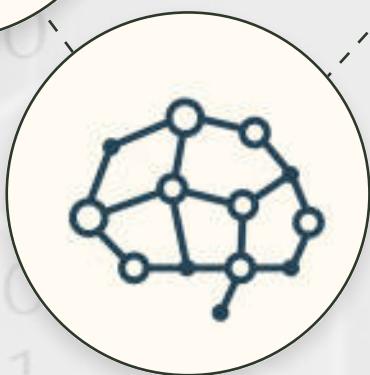
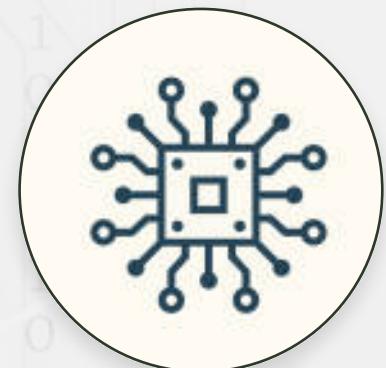
- Engineering (CS, IT, others) - undergrad/ masters and MCA (2nd yr till final yr) students
- Recent passouts / freshers (0-1 yrs exp) looking for jobs in Cloud and AI Engineering, software development

- In our batches for experienced professionals

- Software professionals with 1 to 6 yrs experience, working in AI/ML or Software development, application maintenance & support
- Software professionals looking to change skillsets from areas like testing to AI/ML and software development
- Other experienced professionals looking to enter software engineering/ build career in software industry

Pre-requisites

- Basic understanding of Machine Learning (Supervised & unsupervised learning methods) is good-to-have
- Basic understanding of Python is a must.



Lead trainers/ mentors & instructors

Lead Trainers/ Mentors



Abhiroop Roy

ex CTO/tech founder in 5 startups, 19 yrs in software products, 13 yrs in AI, Data engg, analytics, 8+ yrs as cloud architect.



Prabodh Ranjan

Marie Curie Fellowship- IIT Madras, 7+ yrs cloud & cybersecurity, 6 yrs in AI/ML

Other Trainers

Lead engineers/ architects with past experience in Unicorns, Soonicorns, Silicon valley startups, tech divisions of Fortune 500 enterprises top tier Tech services & consulting firms and product startups

Contact Us for a discussion and for registration for trial sessions

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For Further Details, Register For Program Teardown/ Awareness Session By Filling The Below Google Form:



[Https://Forms.Gle/YGpSXfu3NPRDKT5P7](https://forms.gle/YGpSXfu3NPRDKT5P7)