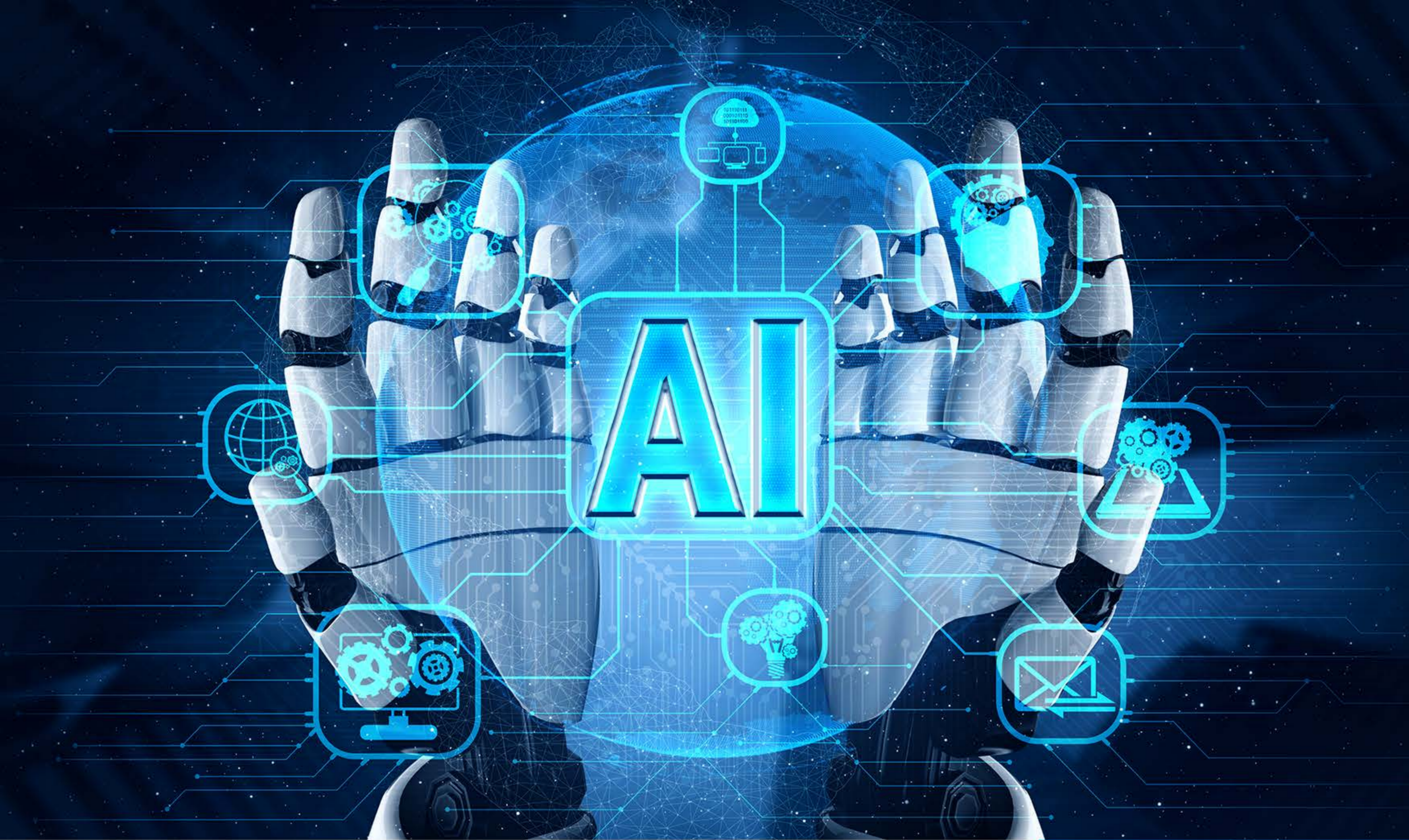


AI & Machine Learning - Professional Program

 Duration: 3 to 6 Months

Innovate
Accelerate
Repeat.





AI & Machine Learning - Professional Program

 **Duration: 3 to 6 Months**

Tools Covered: Python, Jupyter, TensorFlow, PyTorch, scikit-learn, OpenAI GPT, LangChain, FastAPI, Docker and Kubernetes

Course Modules

Python Essentials and Coding Bootcamp

- > Python Setup, Data Types and Control Flow
- > Functions, Modules and OOP
- > Jupyter and Version Control

Data Science and Analytics Toolkit

- > Data Manipulation with Pandas and NumPy
- > Statistical Analysis, EDA and Hypothesis Testing
- > Visualization with Matplotlib, Seaborn and Plotly



Practical Machine Learning Lab

- > Supervised and Unsupervised Learning
- > Ensemble Methods and Recommendation Engines
- > Cross-Validation and Evaluation

Deep Learning Studio

- > ANNs, CNNs, RNNs and Transformers
- > Transfer Learning and Object Detection
- > Hyperparameter Tuning and Optimization

Generative AI Primer

- > GANs, VAEs and LLMs Fundamentals
- > Prompt Engineering Basics
- > Image/Audio/Text Generation

Applied Generative AI

- > LLM Fine-Tuning and Zero-Shot Learning
- > Multi-Modal GenAI Tools
- > Integration with APIs and Pipelines

Foundation Models and AI Platforms

- > Use GPT, Llama, Claude and Gemini
- > API integration and RAG pipelines
- > Deployment with FastAPI and MLflow

Learning Outcomes & Capstone Projects

- > Master Python, ML, DL, and GenAI concepts
- > Build production-ready AI pipelines
- > Deploy models with FastAPI and Docker
- > Integrate foundation models and LLMs
- > Apply prompt engineering and RAG frameworks
- > Handle MLOps, CI/CD, versioning and cloud deployment
- > Capstone Projects: LLM chatbot, YOLO object detection, fraud detection API, recommender system, GenAI tool, Edge AI for IoT

Get in touch with us now

Whether you are ready to apply or just want to learn more, we are happy to connect with you.

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