

# **Prime : Complete AI/ML Job Preparation!**

## **Know your curriculum**

### **Python & Data**

- **Python (programming language)**
- **Variables & Operators**
- **Conditional Statements & Loops (Flow Control)**
- **Functions & lambda functions**
- **List & List comprehensions, Tuple, Dictionary, & Set**
- **File Handling & JSON Module**
- **Object Oriented Programming (OOPs) - in Detail**
- **Data collection, preprocessing & visualization**
- **Numpy, pandas, matplotlib, seaborn etc.**

### **Machine Learning**

- **Mathematics for AI**
- **Statistics, Probability, Central Limit Theorem etc.**
- **Supervised Learning in ML (classification & regression)**
- **Algorithms - Linear regression, Naive Bayes, KNN, Decision Trees etc.**
- **Unsupervised Learning in ML (clustering & association)**
- **Algorithms - Logistic regression, K-means, PCA & dimensionality reduction etc.**
- **Reinforcement Learning in ML**
- **Additional concepts: precision, recall, F1 score, bias/variance tradeoff etc.**
- **Scikit-learn & Kaggle**

## Deep Learning

- **Neural Networks & Terminologies**
- **Forward & Backward Propagation**
- **Perceptron**
- **FNN Architecture (Feed forward neural network)**
- **RNN Architecture (Recurrent neural network)**
- **LSTM (Long short term memory network) need & advantages**
- **CNN Architecture (Convolutional neural network)**
- **Transformers**
- **TensorFlow**
- **PyTorch vs TensorFlow vs Keras**

## GenAI

- **GenAI & LLMs agents (Language Language Models)**
- **NLP (Natural Language Processing)**
- **GAN (Generative Adversarial Network)**
- **RAG (Retrieval-Augmented Generation)**
- **Agentic AI**
- **Cursor AI, Github co-pilot, Claude etc.**
- **Working with OpenAI APIs**

## AI Engineering Stack

- **Flask (Development with AI)**
- **Frontend fundamentals (HTML, CSS, JS)**
- **SQL (for Data Science)**
- **Git & Github (Version Control)**
- **Docker**
- **Kubernetes**

## **Projects**

- **Multiple minor & major projects**
- **Industry grade domain specific projects**
- **Finance, Recommendation system, Medical, E-commerce, Media etc.**
- **GenAI assistant**
- **+ additional sessions by AI professionals**

## **Note:**

- **Course Duration : 4 Months**
- **Lectures will be uploaded on Alternate Days**
- **Start Date : 15th Nov, 2025**
- **Early Bird Offer will end on 27th Oct 2025 at 9:00PM**

**Save time & study only what's needed for Placements**

# **Prime - 1.0**

**Complete AI/ML Batch to become job ready in 4 months.**