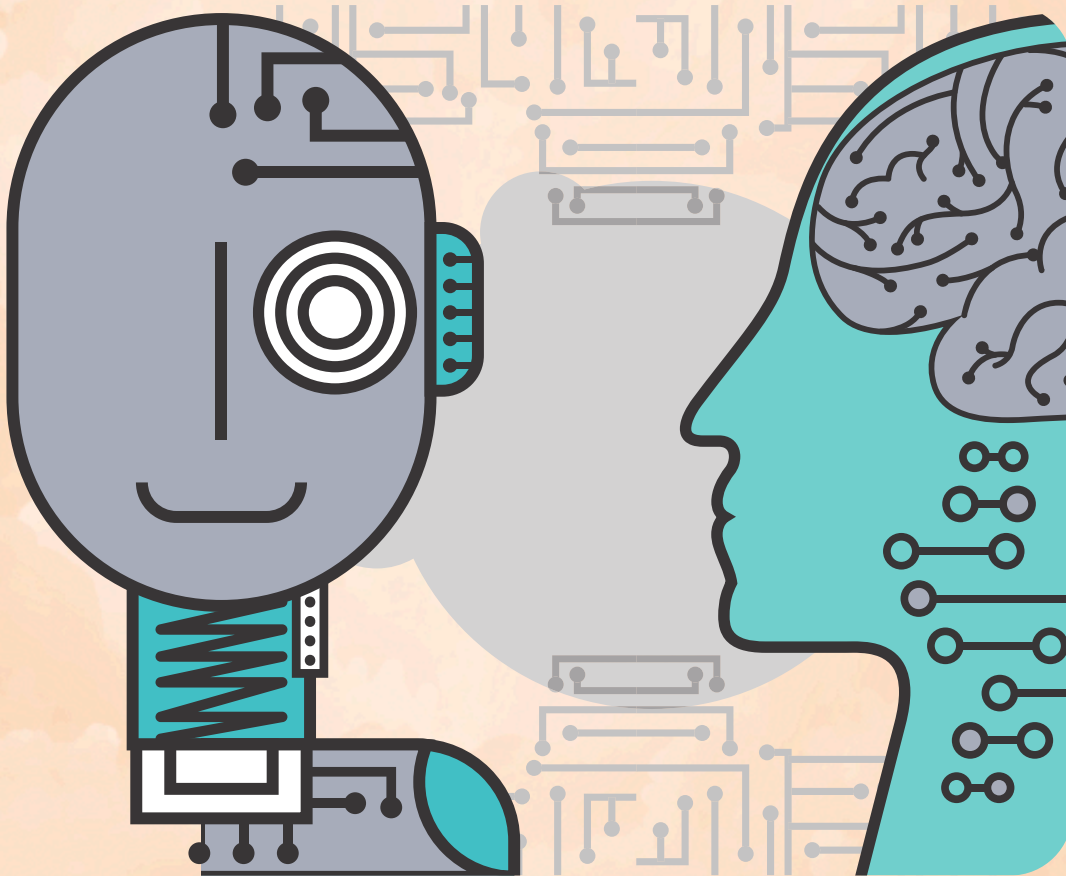


ARTIFICIAL INTELLIGENCE & MACHINE LEARNING

COURSE CURRICULUM



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1. Introduction to AI & Machine Learning

- What is Artificial Intelligence and Machine Learning?
- History, types, and real-world applications
- Difference between AI, ML, DL, and Data Science
- Tools setup: Python, Jupyter, Anaconda, scikit-learn

2. Python for AI & ML

- Python fundamentals for ML
- Numpy, Pandas, and Matplotlib
- Data preprocessing and EDA (Exploratory Data Analysis)
- Handling missing data, outliers, and feature engineering

3. Supervised Machine Learning

- Linear and Logistic Regression
- Decision Trees and Random Forest
- Support Vector Machines (SVM)
- Model training, testing, and evaluation
- Confusion Matrix, AUC, F1 Score

4. Deep Learning with Neural Networks

- Introduction to Neural Networks
- Building deep models with TensorFlow/Keras
- Activation functions, optimizers, loss functions
- CNNs for image classification
- RNNs for sequential data

5. Natural Language Processing (NLP)

- Text preprocessing, tokenization, stemming, lemmatization
- Sentiment analysis and text classification
- Word embeddings (Word2Vec, GloVe)
- Building chatbots with NLP

6. Model Deployment & Real-Time Projects

- Save, export, and reuse models
- Deploy ML models using Streamlit or Flask
- Host on cloud platforms (Heroku, AWS, Render)
- Build live ML apps:
 - Price Predictor
 - Spam Classifier
 - Chatbot

Thank you



Thank You for Going Through Artificial Intelligence & Machine Learning Curriculum
We hope this guide has provided a clear and structured learning path to
strengthen your skills in Artificial Intelligence & Machine Learning.

✦ **NEXT STEPS**

- Start practicing with real-world use cases and hands-on exercises
- Build personal or client-based projects for your portfolio
- Keep exploring updates and best practices in the industry
- Join discussions and stay connected with the community

Need Help or Guidance?

Feel free to contact our course support team:

Course Coordinator

GS Infotekh

contact@gsinfotekh.com

www.gsinfotekh.com

+91 630 171 9270