

Machine Learning Development (Industry-Oriented)

Machine Learning is the process of building applications that learn patterns from data and make intelligent predictions without being explicitly programmed.

What You Will Learn

- Machine Learning Fundamentals
- Data Preprocessing & Feature Engineering
- Model Training & Evaluation
- Classification & Regression Algorithms
- Model Saving & Deployment
- Integration with Python & Django
- Real-Time Machine Learning Project

Development Workflow

1. Collect Dataset
2. Clean & Preprocess Data
3. Analyze & Visualize Data
4. Train Machine Learning Models
5. Compare Model Performance
6. Select the Best Model

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7. Save the Trained Model
8. Integrate with Django
9. Test & Deploy the Application

Algorithms Covered

- Linear Regression
- Logistic Regression
- Decision Tree
- Random Forest
- Support Vector Machine (SVM)
- K-Nearest Neighbors (KNN)
- Naive Bayes

Tools & Libraries

- Python
- NumPy
- Pandas
- Matplotlib
- Scikit-learn
- Joblib/Pickle

Outcome

By the end of the training, you will be able to develop, train, evaluate, and deploy Machine Learning models in real-world web applications using Python and Django.

Includes: One complete industry-level Machine Learning project with source code, documentation, and deployment guidance.

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