

# 12-Month Artificial Intelligence Course Outline

## Official Course Roadmap

🌐 Website: [Ts-Developers.com](https://Ts-Developers.com)

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### 🟢 Month 1-2: Programming & Foundations

- Introduction to Artificial Intelligence
- Python Programming (Basic → Advanced)
- Problem Solving & Logic Building
- CLI-Based Mini Projects

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### 🟡 Month 3: Data Science Fundamentals

- NumPy & Pandas
- Data Cleaning & Preprocessing
- Data Visualization (Matplotlib, Seaborn)
- Real Dataset Handling

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### 🟠 Month 4-5: Machine Learning

- Supervised Learning (Regression, Classification)
- Unsupervised Learning (Clustering)
- Model Evaluation Techniques
- Real ML Projects (Prediction Systems)

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### 🔴 Month 6-7: Deep Learning

- Neural Networks Fundamentals
- TensorFlow & PyTorch

- Image Classification Projects
  - Build Custom Deep Learning Models
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### ● **Month 8: NLP & Chatbots**

- Text Processing & Tokenization
  - Sentiment Analysis
  - Chatbot Development
  - Basic ChatGPT-like AI Model
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### ● **Month 9: Computer Vision**

- Image Processing (OpenCV)
  - Face Detection System
  - Object Detection Projects
  - Real-world Vision Applications
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### ● **Month 10: Advanced AI Systems**

- Recommendation Systems (Netflix/Amazon style)
  - AI Automation Tools
  - AI for Business Applications
  - Case Studies
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### ○ **Month 11: Deployment & Integration**

- Flask / FastAPI
  - REST APIs for AI Models
  - Model Deployment (Local + Cloud Basics)
  - Web Integration with AI
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### ● **Month 12: Final Project + Career Launch**

- Final Capstone Project (Full AI System)
- Portfolio Development (GitHub + Live Projects)
- Freelancing (Fiverr, Upwork)
- Interview Preparation & CV Building

