



# How to Make AI Agents

## Learn to Build and Deploy AI Agents for Real-World Applications

### Course Mode:

- Online (Live & Recorded Sessions)
- Offline (Classroom Sessions)

### Why Learn AI Agents Development?

AI agents are transforming industries, from chatbots and automation tools to autonomous decision-making systems. This course teaches you how to design, build, and optimize AI agents using Machine Learning (ML), Reinforcement Learning (RL), and Large Language Models (LLMs).

### Who Should Take This Course?

- AI developers and researchers interested in agent-based systems
- Software engineers working with automation & intelligent agents
- Entrepreneurs looking to integrate AI agents into their businesses
- Anyone interested in developing self-learning AI-powered applications

### Course Overview

#### Module 1: Introduction to AI Agents

- What are AI Agents? Types & Applications
- Rule-Based vs. Machine Learning-Based Agents
- Understanding Multi-Agent Systems
- Tools & Frameworks for AI Agent Development

#### Module 2: Building AI Agents with Machine Learning

- Supervised vs. Reinforcement Learning for AI Agents
- Developing Agents using OpenAI Gym & Stable-Baselines3
- Decision Trees & Policy-Based Learning
- Behavior Modeling & Simulation

#### Module 3: LLM-Powered Autonomous Agents

- Introduction to Autonomous LLM Agents

- Prompt Engineering & Fine-Tuning for AI Agents
- Memory and Context Retention in LLMs
- Using OpenAI's GPT, DeepSeek, and Custom LLMs for Agent Decision-Making

#### **Module 4: Reinforcement Learning for AI Agents**

- Fundamentals of RL: Rewards, States & Actions
- Q-Learning & Deep Q-Networks (DQN)
- Policy Gradient Methods (PPO, A2C)
- Multi-Agent Reinforcement Learning

#### **Module 5: Real-World AI Agent Applications**

- Chatbot Development with AI Agents
- AI Agents for Finance & Trading (Algorithmic Trading Bots)
- Autonomous Task Management Agents (e.g., AutoGPT, BabyAGI)
- Deploying AI Agents as APIs & Integrations

#### **Course Highlights**

- Hands-on Learning: Work with real-world AI applications
- Industry-Ready Skills: Develop autonomous and intelligent agents
- Mentorship: Expert guidance from AI professionals
- Certification: Earn a certificate upon successful completion
- Community Support: Join our exclusive AI Agent Development Forum

#### **How to Enroll?**

1. Visit our website: [www.ecologic.co.in](http://www.ecologic.co.in)
2. Select the course and fill out the enrollment form
3. Receive confirmation and start your journey with LLMs!

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