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**VIJAY KUMAR CHIRUTHA  
SOFTWARE COURSES**



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**Educating The World**

**81431 86860**

## **MODULE 1: INTRODUCTION TO AI & MACHINE LEARNING**

- **Overview of Artificial Intelligence**
- **Difference between Narrow AI, General AI, and Agentic AI**
- **Overview of Machine Learning & Deep Learning**
- **Key AI applications in industry**
- **Ethics, bias, and safety in AI**

## **MODULE 3: INTRODUCTION TO AGENTIC AI**

- **Definition of Agentic AI (Autonomous AI agents)**
- **Difference between Gen AI and Agentic AI**
- **Multi-agent systems and agent-based modeling**
- **Applications: autonomous assistants, AI agents for research, decision-making bots**

## **MODULE 2: INTRODUCTION TO GENERATIVE AI (GEN AI)**

- **What is Generative AI?**
- **Types of generative models:**
  - **Language Models (LLMs)**
  - **Image Generation Models**
  - **Audio & Video Generative Models**
- **Overview of tools: ChatGPT, DALL-E, Stable Diffusion, MidJourney**
- **Applications: content creation, code generation, design, education**

## **MODULE 4: NATURAL LANGUAGE PROCESSING (NLP)**

### **FUNDAMENTALS**

- **Basics of NLP & language models**
- **Tokenization, embeddings, attention mechanism**
- **Transformers and LLM architecture overview**
- **Prompt engineering & context management**

### MODULE 5: GENERATIVE AI MODELS

- Language models: GPT, LLaMA, BERT, T5
- Image generation: GANs, Diffusion Models
- Audio & video generation: VAE, Text-to-Speech, DeepFake basics
- Fine-tuning pre-trained models

### MODULE 7: PROMPT ENGINEERING & AI INTERACTION

- Principles of effective prompting
- Zero-shot, one-shot, and few-shot prompting
- Chain-of-Thought prompting for reasoning
- Tool use & agent orchestration
- Debugging and optimizing AI outputs

### MODULE 6: AGENTIC AI MODELS & MULTI-AGENT SYSTEMS

- Concept of autonomous agents
- Task-oriented AI agents
- Planning, reasoning, and decision-making in agents
- Multi-agent collaboration and competition
- Integration with APIs and external tools

### MODULE 8: AI TOOLS & PLATFORMS

- Generative AI platforms: OpenAI, Hugging Face, MidJourney, Runway
- Agentic AI platforms: AutoGPT, LangChain, BabyAGI
- APIs for Gen AI & Agentic AI integration
- Cloud platforms: Azure AI, AWS SageMaker, Google Vertex AI

### MODULE 9: APPLICATIONS OF GEN AI & AGENTIC AI

- Content creation: text, image, audio, video
- Code generation and software development assistance
- AI-powered assistants & chatbots
- Autonomous research agents
- Enterprise applications: marketing, customer support, data analysis

### MODULE 11: ETHICS, SAFETY & GOVERNANCE

- AI safety & robustness
- Bias and fairness in generative models
- Data privacy and copyright considerations
- Responsible AI guidelines
- AI policy and governance frameworks

### MODULE 10: HANDS-ON LAB EXERCISES

- Building a ChatGPT-like assistant using API
- Creating AI-generated images using diffusion models
- Developing an autonomous task-oriented agent
- Fine-tuning a small LLM for a specific domain
- Experimenting with multi-agent collaboration scenarios

### MODULE 12: REAL-TIME PROJECTS

- Autonomous research assistant project
- AI content generator for blogs or social media
- AI-powered code assistant
- Multi-agent simulation project
- AI chatbot for enterprise tasks

### **MODULE 13: INTERVIEW PREPARATION & CAREER GUIDANCE**

- **Common Gen AI & Agentic AI interview questions**
- **Scenario-based AI problem solving**
- **Resume building for AI/ML roles**
- **AI certification pathways and portfolio development**



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# OUR SERVICE

WE ARE PROVIDING MULTIPLE SOFTWARE COURSES

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- JAVA FULL STACK WITH AI
- DIGITAL MARKETING WITH AI
- TABLEAU + SQL WITH AI
- ORACLE, SQL, MYSQL
- EXCEL AND ADVANCED EXCEL WITH AI
- SAP [ALL MODULES]
- SALESFORCE
- GEN AI
- CYBER SECURITY WITH AI
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- MS OFFICE
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# About US

- We are Providing the Software Courses for both Online and Offline
- We have well Experienced and Real Time Trainers
- We give the best content to cover all your course syllabus and its practical knowledge
- We give 2 to 3 Assignments to our students which helps the more interactivity with course and its practical real time scenario knowledge
- We explains the 2 to 3 projects and letting the students to know to how to do real time projects once they get selected



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# THANK YOU SO MUCH

## CONTACT US

+91 - 81431 86860

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