TECHNOCATION FREELANCING TRAINING INSTITUTE & SOFTWARE HOUSE

Professional ChatGPT-4.0 Course Outline

Module 1: Introduction to ChatGPT-4.0 & AI Basics

- Overview of ChatGPT-4.0 and Its Capabilities
- Evolution of AI Models: GPT-3, GPT-3.5, and GPT-4.0
- Understanding Natural Language Processing (NLP)
- How ChatGPT Works (Tokens, Context, Training)

Module 2: Setting Up and Accessing ChatGPT-4.0

- How to Access ChatGPT-4.0 (Web, API, and Integration)
- Setting Up OpenAI API Keys
- Exploring the ChatGPT Playground
- Understanding Model Parameters and Usage Limits

Module 3: Prompt Engineering and Optimization

- Basics of Effective Prompt Writing
- Structuring Prompts for Different Use Cases
- Advanced Prompting Techniques (Zero-shot, Few-shot, Chain-of-Thought)
- Using System Messages to Guide Responses

Module 4: Using ChatGPT-4.0 for Content Creation

- Writing Blogs, Articles, and Social Media Posts
- Generating Summaries and Reports
- Scriptwriting and Storytelling with AI
- Enhancing Creativity with AI Assistance

Module 5: ChatGPT-4.0 for Coding and Development

- Generating and Debugging Code with ChatGPT
- Writing and Optimizing Algorithms
- Using ChatGPT for API Documentation and Code Comments
- Integrating ChatGPT with IDEs and Development Workflows

Module 6: Automating Business Processes with ChatGPT

- AI-Powered Customer Support (Chatbots, FAQs)
- Generating Business Reports and Analytics
- Email and Document Automation
- AI-Powered Market Research and Competitor Analysis

Module 7: Fine-Tuning and Customizing ChatGPT Responses

- Adjusting Temperature, Token Limits, and Response Variability
- Training Custom AI Assistants
- Handling Bias, Ethics, and Responsible AI Usage
- Mitigating Hallucinations and Improving Accuracy

Module 8: Advanced ChatGPT API Integration

- Calling External APIs with ChatGPT
- Building AI-Powered Applications (Chatbots, Virtual Assistants)
- Using ChatGPT with Other AI Tools (DALL·E, Whisper, etc.)
- Deploying AI Models in Web and Mobile Applications

Final Module: Capstone Project & Certification

- Designing a Real-World AI Application with ChatGPT
- Implementing AI Solutions in a Business or Technical Environment
- Performance Evaluation and Optimization
- Final Presentation and Course Certification