

Prompt Engineer

Syllabus



Module 1: Foundations of Prompt Engineering

› Introduction to Generative AI & Prompting

- What is Prompt Engineering?
- AI Tools (ChatGPT, Claude, Gemini, Llama, MidJourney, DALL·E)
- Careers & Applications in India (EdTech, IT, Digital Marketing, Startups)

› Hands-on Practice

- Write effective prompts for summaries, explanations, and Q&A
- Use ChatGPT/Gemini to solve basic problems

› Basics of Prompting

- Role of prompts in AI
- Zero-shot, One-shot, Few-shot prompting
- System vs User prompts

Module 2: Prompting for Text Generation

› Writing & Creativity Prompts

- Essay writing, story generation, translation
- Poem, blog, and social media content creation

› Coding Prompts

- Debugging with AI
- Code explanation & documentation prompts

› Business & Productivity Prompts

- Email drafting, Resume/CV writing, Corporate reports
- Automating repetitive tasks with AI

Module 3: Prompting for Specialized Domains

› Data & Research Prompts

- Extracting key points from research papers
- Data summarization from CSV/Excel

› NLP Prompting

- Sentiment analysis with prompts
- Information extraction

› Image & Design Prompts (MidJourney, DALL·E, Stable Diffusion)

- Writing effective image prompts
- Controlling styles, lighting, and details

Module 4: Advanced Prompt Engineering

› Prompt Structuring Techniques

- Role prompting, Chain-of-thought prompting, Few-shot learning
- Self-consistency & Iterative prompting

› Tool Integration

- Using AI with Google Sheets, Notion, VS Code
- APIs for prompt automation

› Multi-modal Prompting

- Combining text + image prompts
- AI tools for video/audio generation (RunwayML, ElevenLabs – intro)
- System vs User prompts

Module 5: Capstone Project + Career Prep

› Capstone Project Ideas:

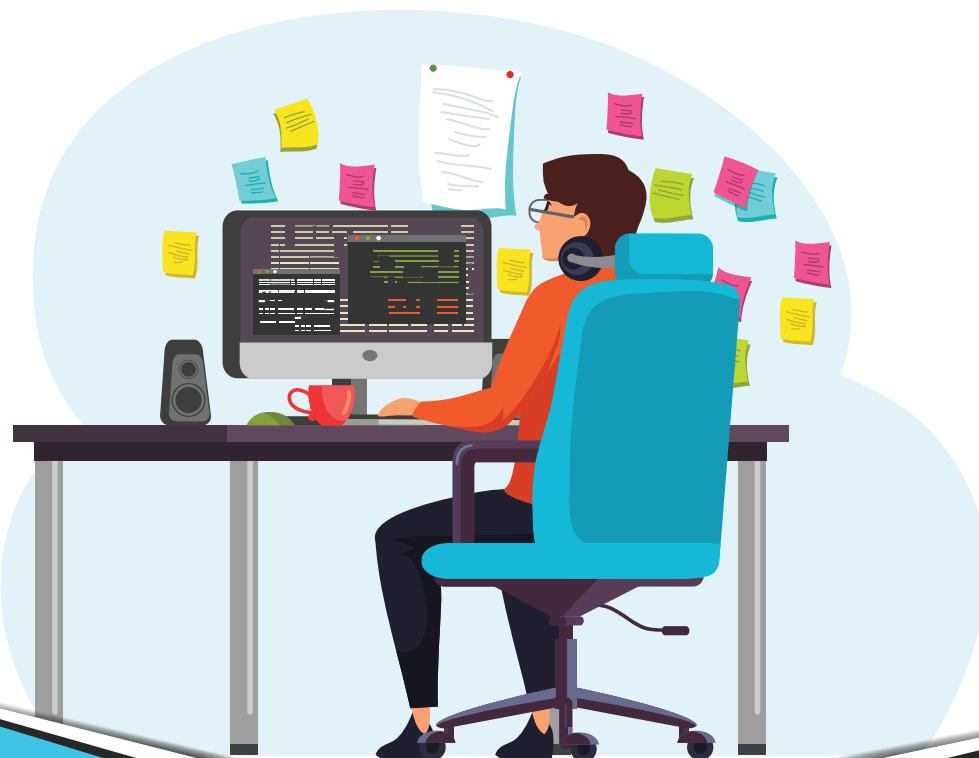
- AI tutor for Class 8–12 students (math/science help)
- Content creation bot for YouTube/Instagram posts
- Travel assistant chatbot (plan trips in India)
- E-commerce product description generator

› AI Ethics & Responsible Prompting

- Avoiding bias & misinformation
- Plagiarism & copyright issues in AI content

› Career Preparation

- Resume with prompt engineering projects
- Job assistant
- Interview Mock round





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