

Agentic AI Engineer with hands-on experience building document-grounded LLM systems, multi-mode AI workflows, and hallucination-safe assistants. Experienced in designing PDF-based knowledge pipelines, agent orchestration, and session-aware AI systems using Python and APIs. Focused on building reliable, production-ready AI products with clear system boundaries and real-world learning use cases.

### AGENTIC AI & LLM SKILLS

- Agentic AI Systems & Autonomous Agents
- LangChain, LangGraph, Multi-Agent Workflows, Prompt Engineering & Optimization
- Tool Calling, Function Execution, Contextual Memory & State Management
- LLM Orchestration & Evaluation
- Document-Grounded AI (RAG-style Systems), Hallucination Control

### TECHNICAL SKILLS

Programming:	Python, FastAPI, Flask, REST APIs, SQL, C++
Agentic AI & LLMs	LangChain, LangGraph, Prompt Engineering, Tool Calling, Multi-Agent Systems
Data & Storage:	PostgreSQL, MySQL, Power BI, Excel
Development Tools:	Git, VS Code, PyCharm, API Integration, Apache

### PROJECTS

<b>CourseMateAI</b>	Dec'25 - Present
• Built a document-grounded (RAG-style) AI study assistant that answers queries strictly from user-uploaded PDFs, preventing hallucinations.	
• Designed a PDF ingestion and retrieval pipeline to enable contextual chat, quiz generation, and structured note creation.	
• Implemented multiple learning modes including PDF-based Chat, Free Chat, Quiz Mode, and Notes Mode with clear source boundaries.	
• Added session-based memory and designed an Arena Mode architecture to support long-term, gamified learning.	
<b>Dynamic SQL Query Automation</b>	Mar'25 - Apr'25
• Built a backend service to dynamically construct and execute validated SQL queries for MySQL databases.	
• Implemented query validation and error handling to reduce runtime failures and unsafe database operations.	
• Designed modular backend components to improve scalability and integration with other systems.	
<b>MORPHIE-BOT</b>	Sep'24 - Nov'24
• Built an AI-powered design assistant that converts user intent into structured themes, color palettes, and layout outputs.	
• Designed controlled AI response formats to ensure deterministic outputs suitable for system integration.	
• Implemented backend APIs to manage prompt execution, response validation, and UI consumption.	

### EXPERIENCE

<b>Research and Development Intern</b>	Jul'24 - Aug'24
HAIER Appliances Pvt Ltd	
• Developed data pipelines on real-time PCB manufacturing datasets, enhancing defect detection with 80% accuracy.	
• Designed automated Power BI dashboards integrated with SQL queries, improving reporting speed by 65%.	
• Optimized data processing using Python, reducing computation time by 30% and improving performance.	

### EDUCATION

<b>B.Tech in Electronics and Communication, Maharaja Surajmal Institute of Technology</b>	2021 - 2025
Class 12 and Class 10 (CBSE), Bharti Public School	till 2021

### ACHIEVEMENTS

- Secured a global rank of 17 in the coding-ninjas weekly contest | 1853 rated at leetcode
- State-Level Basketball Player | 1st Position in Inter-Zonal & Zonal Level
- Among Top 5% in CBSE (Class XII)
- School Rank 1 in International Science Olympiad (ISO)