# Vuppala Manikanta

*B.Tech CSE – 2026 — Software Developer — Python + Full-Stack + System Design Enthusiast*

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## Education

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| **Keshav Memorial Institute of Technology**, Hyderabad | **2023 − 2026** |
| B.Tech in Computer Science Engineering (AI & ML) | GPA: **8.25/10** |
| **Teegala Krishna Reddy Engineering College**, Hyderabad | **2020 − 2023** |
| Diploma in Computer Engineering | GPA: **9.25/10** |
| **Sri Sai Siddhartha High School**, Hyderabad | **2013 − 2020** |
| SSC (State Board of Telangana) | GPA: **10/10** |

## Technical Projects

**AI-PathGen – Adaptive Learning Platform**    *Apr 2024 – Jul 2024*
*MERN Stack, Cohere API, Python, System Design*

- Developed a GenAI-based platform to generate quizzes and summaries with over **90% content relevance**.
- Built scalable backend with **Node.js + MongoDB**, and frontend using **React.js**.
- Integrated LangChain + Cohere for automated generation of 10+ MCQs per topic.
- Reduced manual content creation by **70%**; validated by 20+ users.
- GitHub: github.com/manivuppala124/AI-PathGen

**TaskAgent – Autonomous AI Planning Agent**    *Jun 2025 – Present*
*Python, FastAPI, LangGraph, Gemini 1.5 Flash, Streamlit*

- Designed and deployed microservice-based Python backend for real-time LLM-based task planning.
- Used LangGraph + Gemini to handle multi-step task execution and reasoning.
- Managed over **500+ tasks/day** in testing; built responsive UI with Streamlit.
- GitHub: github.com/manivuppala124/TaskAgent

**EduBot Pro – AI Document Assistant (RAG)**    *Jun 2025 – Present*
*Python, FastAPI, LangChain, FAISS, Gemini 1.5 Flash, Streamlit*

- Created an AI assistant for document-based Q&A using **Retrieval-Augmented Generation**.
- Built full pipeline: PDF → Chunking → Vector DB (FAISS) → Q&A using Gemini.
- FastAPI backend supports dynamic file uploads; **avg response latency: ¡ 1.2s**.
- Achieved **85%+ answer accuracy** in internal testing.
- GitHub: github.com/manivuppala124/EduBot

## Technical Skills (Python-Focused)

**Languages:** Python (Advanced), Java, C++, JavaScript
**Python Libraries:** NumPy, Pandas, Scikit-learn, FastAPI, LangChain, FAISS, Cohere, OpenAI API, Gemini
**Web Development:** React.js, Node.js, Express.js, HTML5, CSS3, Tailwind CSS
**Databases:** MongoDB, MySQL
**Backend & DevOps:** Docker, REST APIs, CI/CD (GitHub Actions), AWS (EC2, S3, Lambda)
**Tools:** Postman, Google Colab, VS Code, Linux/Unix
**Relevant Courses:** Data Structures, Operating Systems, DBMS, System Design, Deep Learning

## Soft Skills

- **Problem Solving and Debugging**
- **Team Collaboration**
- **Quick Learning Ability**
- **Clear Communication**

## Certifications

**Industrial Training – NSIC (2022)**
Topics Covered: Python (Core + Advanced), Java, Cybersecurity, Data Science Foundations