MANAV DARJI

SOFTWARE ENGINEER – AI | GENERATIVE AI | AGENTIC AI | FULL-STACK AI

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LinkedIn | GitHub | Portfolio

PROFESSIONAL SUMMARY

AI Engineer with hands-on experience building AI applications, conversational agents, RAG systems, database optimizations, and full-stack AI solutions. Experienced in Python backend development, agentic workflows, semantic retrieval, local LLM inference, and integrating AI capabilities with enterprise data systems. Currently pursuing an M.Sc. in Data Science & Artificial Intelligence at BITS Pilani Digital.

TECHNICAL SKILLS

Programming: Python, C, C++, SQL, JavaScript, TypeScript
AI/ML & GenAI: PyTorch, TensorFlow, Hugging Face Transformers, LangChain, LangGraph, Google ADK, Model Context Protocol (MCP / FastMCP), RAG, Embeddings, LLM Fine-Tuning (Gemma-2), Ollama (GGUF)
Backend & Databases: FastAPI, Flask, REST APIs, MySQL, MongoDB, ChromaDB, FAISS, Server-Side Caching, Request Debouncing, n8n, ERPNext
Frontend & Full-Stack: React, Streamlit, HTML, CSS
Cloud & Tools: AWS, Google Cloud, Linux, Git, GitHub Actions, Vercel

PROFESSIONAL EXPERIENCE

AI Automation & Conversational AI Engineer | Nobtech Enterprises **Jun 2026 – Present**

- Saved **INR 1,00,000+** in recurring calling and telephony costs by engineering custom voice-calling API integrations with real-time request handling and webhook error recovery, replacing third-party middleware.
- Automated ERPNext billing and invoicing across enterprise Finance and Operations workflows using n8n and Python, with data validation and workflow observability.

AI Engineer Intern | APML Global Mobility Services Pvt. Ltd. **Dec 2025 – Feb 2026**

- Reduced MongoDB database costs by **70–80%** through an optimized schema and server-side caching layer, resolving repeated reads from cache instead of the primary database.
- Reduced backend API requests by **90%+** (from 200+ to 19 per cycle) in a separate workflow optimization using request debouncing and server-side caching.
- Consolidated full-day manual working-hour calculations into a single automated query through a WhatsApp conversational AI agent built with **FastAPI, LangChain, and LangGraph**, featuring stateful memory and structured tool calling.
- Engineered an embedding-based **RAG pipeline** with dedicated per-employee vector databases and a centralized company knowledge base, enabling semantic search across structured and unstructured enterprise records via the WhatsApp agent.

AI-ML Virtual Intern | Google for Developers & AICTE EduSkills **Oct 2024 – Dec 2024**

- Completed a 10-week AI/ML internship involving Python-based machine learning assignments, model development, and practical implementation exercises. **Grade A.**

OPEN-SOURCE ENGINEERING & PROJECTS

Gemma2-2b-mr – Open-Source Fine-Tuning & Team Lead | Kaggle **4 Months**
Transformers, Hugging Face

- Led a 5-member open-source team fine-tuning Google's Gemma-2 2B model on a Marathi corpus, improving regional NLP accuracy by **15%**.

Natural Language-to-SQL & Enterprise RAG Engine (SQL-database-query-gen-ai)
Python, LangChain, ChromaDB, MySQL, Streamlit

- Built a text-to-SQL and RAG query interface enabling natural-language querying over structured MySQL databases with semantic retrieval.

Local-AI – Privacy-First Multi-Agent Assistant
Python, React, FastAPI, Ollama, ChromaDB

- Engineered an offline multi-agent text and image analysis assistant powered by local LLMs, with a React frontend and FastAPI backend.

Timetable Genius – AI Scheduling & Optimization System
Python, Flask, MySQL, MongoDB, Gemini 2.5 Flash

- Developed an academic timetable generator and absence-management platform combining scheduling algorithms with relational MySQL and document-based MongoDB databases.

EDUCATION

BITS Pilani Digital – M.Sc. in Data Science & Artificial Intelligence **Aug 2026 – Present**
Nagindas Khandwala College, University of Mumbai – B.Sc in Artificial Intelligence & Machine Learning **May 2026**
CGPA: **8.56/10**

ACHIEVEMENTS & CERTIFICATIONS

Achievements: National Coding League – Rank 49 among 20,000+ participants | ISRO Lunar Surface Hackathon – Team Lead
Certifications: Google AI Agent Development Kit (ADK) | AWS Machine Learning Scholar – 7 Specialized Certifications | TensorFlow Developer – GeeksforGeeks | OpenCV – Great Learning | Microsoft Azure AI Essentials | Google EduSkills AI/ML Fundamentals | HackerRank Certified – Python, C, C++, SQL