Gopu Manvith

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Education

IIT (ISM) DHANBAD   August 2025
Bachelor of Technology in Computer Science and Engineering (GPA: 6.35)   *Dhanbad, Jharkhand*

Experience

LTIMindtree   July 2025 – Present
Data and GenAI Engineer   *Remote*
- Engineered **LangGraph agents** to convert **50+ Alteryx workflows into DBT pipelines**, cutting manual effort by **70%**.
- Implemented **Azure OpenAI agents** to transform workflows into processed **SQL queries**, improving efficiency by **30%**.
- Collaborated on **workflow interoperability agents** (Alteryx → Vega, KNIME) for seamless integration.

Exposys Data Labs   June 2024 – July 2024
Android App Developer Intern   *Remote*
- Improved app stability by **15%** through feature enhancements in **Kotlin**.
- Fixed **20+ bugs**, boosting performance and overall user experience.
- Optimized UI navigation, cutting load times by **25%**.

Projects

Ollama Agents | *Python, LangChain, Ollama, NVIDIA NIM API, SpeechRecognition, FastMCP*   Source Code
- Fabricated modular **AI Agents**, including a **Voice Agent** with speech recognition and TTS, achieving **95% transcription accuracy**.
- Created a **LinkedIn Job Agent** that scrapes 100+ jobs per run, compares them with resumes, and suggests **3–5 targeted improvements**.

AI Doctor | *Python, Transformers, LangChain, TensorFlow, FAISS, NVIDIA NIM API*   Source Code
- Fine-tuned **DistilBERT** on disease–symptom data, reaching **92% accuracy**.
- Developed a **RAG-based system** (FAISS + MiniLM) for medical Q&A, reducing irrelevant outputs by **40%**.

Heart Rate Estimation App | *Android Studio, Express.js, Google ML Kit, Firebase, Bcrypt.js*   Source Code
- Built an app that measures heart rate using **facial video analysis with CameraX**, achieving **±3 BPM accuracy**.
- Upgraded video-to-signal pipeline, reducing latency by **50%** for real-time results.
- Converted **IIT Indore's ML research** into a production-ready app with secure data handling via **Firebase**.

Achievements

- Ranked **1851 (99.85 percentile, Open Category)** in **JEE Main**.
- Secured **AIR 4359 (Open Category)** in **JEE Advanced**.
- Qualified for **IIIT Hyderabad UGEE**, one of India's most competitive entrance exams.
- Competed in national hackathons: **Hackfest'23 (NIT Trichy)** and **Boeing Vertex Hackathon**.
- Won **Bronze Medal** in **Basketball at Parakram'23**.
- Represented in inter-collegiate tournaments: **INTER IIT (Basketball)** and **Spardha (Basketball)**.

Technical Skills

Languages: Python, TypeScript, JavaScript, C, C++, Kotlin, Swift
Technologies: LangGraph, Transformers, NVIDIA NIM, React-Native, LangChain, TensorFlow, FastAPI, AWS, Microsoft Azure, Passport.js, Jupyter Notebook, Android SDK, iOS SDK
Developer Tools: Git, Docker, CI/CD Pipelines
Database Management: SQL, MongoDB, Google FireBase
Others: Artificial Intelligence, Deep Learning, Machine Learning, Data Structures and Algorithms (C++), Operating Systems , Objected Oriented Programming , Database Management Systems