

Amrit Mohan

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Education

Dayananda Sagar College of Engineering <i>B.Tech - Computer Science and Engineering; CGPA: 8.45</i>	Bengaluru, India 2024 - 2028
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Technical Skills

Languages: Python, C++, SQL
Frameworks: LangChain, LangGraph, RAG, NLP, NumPy, Pandas, Matplotlib, Seaborn, Scikit-learn, TensorFlow, PyTorch
Tools: Git, GitHub, Jupyter Notebook, Google Colab, Pinecone, Power BI, Kaggle
Databases: MySQL

Experience

Project Trainee <i>Larsen & Toubro (L&T)</i>	Oct 2025 - Dec 2025 India
- Developed automated Python-based data extraction pipelines to collect machine health reports and equipment telemetry from multiple internal sources, reducing manual reporting effort by 75% across 50,000+ equipment records. - Built data preprocessing and cleaning workflows for large-scale equipment datasets, reducing analysis turnaround time by 60% and enabling near-real-time monitoring from previously batch-only processes. - Performed trend analysis on machine performance data using Pandas and Matplotlib, identifying recurring failure patterns that contributed to a 20% improvement in preventive maintenance planning. - Designed and deployed interactive Power BI dashboards tracking equipment utilization and operational KPIs; implemented automated report scheduling, cutting weekly reporting cycles from 6 hours to under 1 hour.	

Projects

TriAge - Autonomous Quality Engineering Platform	Link
- Built the Healer Agent using LangGraph for automated RCA on test failures, correlating error traces to offending commits and generating targeted fix patches via GitHub MCP PRs, cutting resolution time by 80%. - Developed a static and dynamic code analysis pipeline parsing 10,000+ lines of code to identify changed modules and enable accurate failure attribution with 90%+ accuracy. - Enabled fully autonomous self-healing CI/CD by closing the loop between test failure detection and code remediation, reducing deployment blocking time by 70% across all active pipelines.	
WebRTC Video Conferencing Platform	Link
- Built a real-time P2P video conferencing app using WebRTC and JavaScript supporting 10 concurrent users with sub-200ms latency and connection setup under 2 seconds across 95% of sessions. - Implemented WebSocket-based signaling in Node.js with STUN/TURN NAT traversal and adaptive bitrate controls, reducing bandwidth consumption by 35% while maintaining HD video quality.	
Chat with Codebase - RAG-based Developer Assistant	Link
- Implemented a RAG pipeline using LangChain to clone repos, parse 50,000+ lines of source code, and generate semantic embeddings enabling sub-second retrieval across 1,000+ code chunks. - Enabled natural language querying of project architecture and logic, reducing developer onboarding time by an estimated 60% across complex multi-module projects.	
Talk2Doc - AI Document Question Answering System	Link
- Built a RAG-powered document assistant processing 100+ page documents in under 30 seconds, achieving 85%+ answer relevance scores through chunking, embedding, and LangChain-based retrieval. - Integrated contextual LLM response generation, reducing manual document search time by 70% across tested use cases with 50MB+ document uploads supported.	

Achievements & Extra-Curricular

2x Hackathon Winner - First place at college-level hackathons held at Dayananda Sagar College of Engineering (DSCE), Bengaluru, competing against 50+ teams across AI/ML and full-stack development domains.
2x Hackathon Finalist - Selected as a top finalist in inter-college hackathons across various institutions, demonstrating consistent performance in rapid prototyping and problem-solving under time constraints.