

Tanya Chaturvedi

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TECHNICAL SKILLS

Languages: C++, Python, Go, JavaScript.
Web Technologies: HTML, CSS, React.js, Node.js.
Databases: MySQL, MongoDB, PostgreSQL, Redis.
Tools: Git, Kubernetes, Docker, Power BI, GitHub Actions, Kafka
AI/ML: Machine Learning, Deep Learning, Neural Networks, LangChain, scikit-learn, pandas

CERTIFICATES

- Neural Networks and Deep Learning – DeepLearning.AI

PROJECTS

Swaasthya | *Go, Kafka, Redis, PostgreSQL, Docker, Kubernetes* Grand Finalist SIH'24

- Engineered a scalable microservice-based hospital system with region-based DB sharding and full container orchestration.
- Implemented robust two-factor authentication; curtailed unauthorized access incidents by 70%.
- Streamlined patient flow using Redis-powered intelligent queuing, decreasing average wait times by 25%.
- Orchestrated Kafka-driven event pipelines for real-time asynchronous processing across distributed nodes.

Promptly | *RestfulAPI, Google Gemini API, React.js, Node.js*

- Developed and deployed a full-stack AI content generation platform using React.js (frontend), Node.js (backend), and Google Gemini API for large language model integration.
- Spearheaded development and deployment of a React.js and Node.js full-stack AI content generation platform with Google Gemini API integration, cutting manual content creation time by 75%.
- Leveraged Gemini's multimodal, large-context capabilities to enable automated creation of emails, social media posts, and document summaries.

Knowbotic | *Python, LangGraph, Vector Search*

- Designed an autonomous LLM-powered research agent that parsed 10K+ documents and online sources.
- Enabled multi-agent collaboration with memory persistence and goal realignment.
- Integrated verifiable summarization via RAG and real-time source retrieval for traceable insights.
- Engineered a novel LLM orchestration framework that surpassed existing toolchains in efficiency, leading to a 35% reduction in inference costs and improved resource optimization across all projects.
- Constructed a FAISS-based embedding pipeline to enhance vector similarity search and reduce latency by 40%.

ACHIEVEMENTS

- LeetCode:** Contest rating 1672, Top 12.4% out of 600K+ users.
- GeeksForGeeks:** Global Rank 7,887, rating 1553 among 200k+ users.
- Smart India Hackathon 2024:** Finalist (Top 5 teams) out of 300+ submissions at VIT Bhopal.

EXTRA CURRICULARS

Joint Secretary, BashCraft: Spearheaded 4+ technical events, including podcast with a Senior Staff member at Google, boosting student participation by 40% through engaging hackathons.
Technical Team Member, IOT club: Executed 3+ large-scale IoT-based campus initiatives involving hardware-software convergence.
District level Gymnastics Silver Medalist Secured 2nd place among 30+ athletes at Hyderabad.

EDUCATION

Vellore Institute of Technology	Bhopal, MP
<i>B.Tech in Electronics and Communication, Specialization in AI and Cybernetics – 8.23 CGPA</i>	<i>Oct 2022 – Jul 2026</i>
Christ Church Girl's S.S. School	Jabalpur, MP
<i>Class XII – 85%</i>	<i>Apr 2020 – May 2021</i>
Christ Church Girl's S.S. School	Jabalpur, MP
<i>Class X – 90%</i>	<i>Apr 2018 – May 2019</i>