

SURAJ KUMAR

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Education

Siddaganga Institute Of Technology

August 2023 - present

Bachelor of Engineering in Artificial Intelligence and Data Science (CGPA: 9.46) — 2023-27

Tumkur, Karnataka

Coursework: Data Structures and Algorithms, Object-Oriented Programming, Operating Systems, Database Management Systems, Design and Analysis of Algorithms, Machine Learning, Software Project Management

Skills

Languages: C++, C, Python, Java, JavaScript, TypeScript

Frameworks & Libraries: React, Next.js, Node.js, Express, Bun, Tailwind CSS

Databases & Backend: PostgreSQL, MongoDB, SQL, Prisma, REST APIs, Redis, JWT

AI & Systems: Multi-Agent Systems, Redis, LiveKit, Webhooks

Tools: Git, GitHub, Postman, Docker, AWS

Projects

PodNex — AI-Powered Podcast Generation Platform

[Link](#)

- Built and deployed an AI podcast platform on **AWS EC2** with Docker and nginx, using **AWS S3** for audio storage.
- Designed async job pipeline with BullMQ and Redis for AI script generation and TTS processing; validated retry logic and failure recovery under fault injection.
- Built REST API with session auth, API key support, and webhook delivery; wrote test suite covering CORS, error-handling, and auth boundary conditions.
- Tech stack: Next.js, TypeScript, Node.js, PostgreSQL, Prisma, AWS EC2/S3, Docker, OpenAI API, Unreal Speech TTS.

Kuma AI — Intelligent Personal Assistant with Multi-Agent System

[Link](#)

- Built a full-stack AI assistant with multi-agent architecture, long-term memory, and vision capabilities.
- Integrated Google Workspace (Gmail, Calendar, Drive) and GitHub; validated API responses, auth token expiry, and failure recovery across integrations.
- Implemented real-time voice chat with LiveKit and JWT authentication; tested Redis queue concurrency and session boundary conditions.
- Tech stack: React, TypeScript, Bun, Express, PostgreSQL, Prisma, Redis, and AI SDK with Google Gemini/OpenAI.

FinTalk — Multilingual Conversational Loan App

[Link](#)

- Built an AI chatbot for loan eligibility and guidance; applied **BVA** and Equivalence Partitioning to validate income, age, and credit score input ranges.
- Integrated multilingual NLP (Sarvam AI) for accessibility; tested language detection accuracy and fallback handling across regional languages.
- Developed with Python, Streamlit, Hugging Face Transformers, and secure authentication.

Achievements

- Ranked **304th** out of 6000+ teams in the **Amazon ML Challenge 2025**.
- Participated in **JP Morgan Code for Good 2025**, building and validating dashboards for NGO *PANS*; implemented data integrity checks and quality validation for order management workflows.
- **1st Runner-Up** at "Research Gate" Hackathon for *Sayan* (Govt. scheme app); **2nd Runner-Up** in **UI/UX Design** at *Browse*.
- Solved **320+** **LeetCode** problems with a contest rating of **1666**.
- Organized a **hackathon** for AI Brewery; conducted a **Generative AI workshop** (40+ participants) and a multi-day **Web Development workshop** for juniors.
- Ranked in the **Top 10%** among 1200+ teams at *The Great Bengaluru Hackathon* with *FinTalk*, an AI-powered finance assistant.

Position Of Responsibility

AI Brewery

June 2025 – Present

Finance Secretary

Tumkur, Karnataka

- * Led **AI-focused projects** and **web development** initiatives; validated project outputs across team deliverables.

Decoders

May 2024 – Present

Member

Tumkur, Karnataka

- * Collaborated with the team to organize various **coding** challenges and events while promoting a strong **coding culture** across the campus.