

Kartik Tamhan

LinkedIn: <https://www.linkedin.com/in/kartik-tamhan>

GitHub: <https://github.com/Kartik-Creates>

Email: kartiktamhan968@gmail.com

Mobile: +91 9689684983

EDUCATION

SB Jain Institute of Technology

August 2023 – May 2027

Bachelor of Technology in Computer Science and Engineering

TECHNICAL SKILLS

Languages: Java, Python, Typescript, JavaScript, GoLang

Frameworks: Express.js, React.js, NodeJS, Django

Tools: Figma, GIT, Android Studio, Visual Studio, Replit, Notion

Soft Skills: Leadership, Information management, Public Speaking, Logistics Management

PROJECTS

AnnaDaata | HTML, CSS, Javascript, Redis

- Designed and developed a full-stack web application aimed at reducing food wastage and hunger by connecting NGOs, civilians, and donors in real time.
- Enabled users (civilians) to upload geotagged photos of locations where people were in need of food; rewarded contributors with digital tokens as incentives.
- Deployed containerized solution supporting 1,000+ daily email operations with high-performance queue management

NLP-to-SQL Chat | Go, RAG, WebSocket, REST API, PostgreSQL

- Built intelligent conversational database system using RAG and NLP to transform user queries into SQL statements with 90% accuracy rate
- Implemented real-time WebSocket chat interface supporting 50+ concurrent users with JWT authentication and role-based access control
- Engineered AI-powered query validation ensuring read-only operations with 98% security success rate and 2-second response time

Spam Detection Web App | Python, Flask, React, Scikit-learn, MongoDB

- Developed an end-to-end machine learning system achieving 94 percent accuracy in spam classification using Scikit-learn's ensemble methods and natural language processing techniques
- Architected full-stack solution with Flask REST API, React frontend with real-time updates, and MongoDB for scalable data persistence and analytics logging
- Implemented live prediction pipeline processing 1000+ messages/hour with sub-200ms response time, featuring interactive dashboard for model performance monitoring and user feedback collection

AI Response Aggregator | Next.js, TypeScript, OpenAI API, Google AI API, Tailwind CSS

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ACHIEVEMENTS

- Hackathon Runner Up – 24-Hour Hackathon at SB Jain Institute of Technology
- Hackathon Participation at premier institute Symbiosis Institute of Technology.
- Solved **500+** algorithmic problems.

VOLUNTEERING

Community Engagement Volunteer – SETU Welfare Foundation

- Conducted weekly Saturday community surveys to identify local problems and needs Prepared detailed reports documenting community issues for NGO program development and intervention planning