Niranjan C N

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◎ Summary

Computer Science undergraduate and Software Engineer delivering production-grade full-stack and AI-driven systems across aviation and enterprise platforms. Built reinforcement-learning simulations and ML pipelines achieving 98%+ detection accuracy, with strong foundation in data structures, algorithms, and scalable system design.

🎓 Education

AMC Engineering College — B.E. Computer Science (CGPA: 8.5)   *2023 – 2027*

💼 Experience

Software Development Engineer (Contract), AeroAspire — Remote   *Oct 2025 – Present*
- Own development of **AeroBriefs**, a production aviation weather briefing platform centralizing operational data for pilot and ATC workflows.
- Architected and deployed a real-time end-to-end system using **Flutter, Firebase, and Firestore**, ensuring reliable synchronization, scalability, and aviation-grade robustness.

Software Development Engineer Intern, AeroAspire — Remote   *Sep 2025 – Oct 2025*
- Built and integrated full-stack modules using **React, Flask, Docker, and SQLite**, contributing to testing pipelines and production feature releases.

Software Development Engineer (Consultant), Tribeca Softech — Remote   *Jan 2026 – Present*
- Developed enterprise **IT risk governance platform components** using **React, RAG pipelines, FastAPI, and DataGol**, enabling structured knowledge retrieval and analytics insights.
- Engineered a **LinkedIn trusted-network intelligence browser extension** with **JavaScript DOM extraction**, **FastAPI**, **PostgreSQL (Neon)**, and **JWT** for automated profile analysis and outreach generation.

📂 Projects

CIVITAS — AI Smart City Digital Twin   ○
- Designed an **AI-driven smart-city digital twin** with adaptive reinforcement learning, PPO model and agent-based citizen behavioral modeling for policy optimization.
- Engineered multi-objective reward functions balancing infrastructure stability, public sentiment, and economic efficiency with measurable policy convergence.
- Integrated LLM-assisted reasoning and developed a real-time **FastAPI dashboard** visualizing policy → metric → sentiment causality and simulation dynamics.

IntelliMine — Autonomous Landmine Detection System   ○
- Engineered AI-based landmine detection and classification using **Random Forest, PCA, and severity scoring** and achieved **98.2% detection rate** and **93.8% cross-validation accuracy**.
- Developed mine-type prediction, **A* safe path planning**, and deployed full-stack system with **React.js, Flask, MongoDB, and JWT-secured APIs**.

AgriMind — AI Crop & Yield Prediction Platform   ○
- Built ML-driven crop recommendation and yield prediction across **30+ crops** with **96.8% model accuracy**.
- Implemented **Flask + PostgreSQL backend**, end-to-end ML pipelines, and responsive React UI with secure authentication and real-time insights.

</> Skills

Languages: C, C++, Java, Python, JavaScript, Dart, HTML, CSS
Frameworks & Libraries: React.js, Flutter, FastAPI, Flask, Node.js, Scikit-learn, RAG Pipelines
Databases: PostgreSQL, MongoDB, MySQL, Firestore, SQLite
Tools: Git, Docker, Linux, Postman, Swagger, Playwright, Vercel, Render, Railway, Firecrawl

ℹ Additional Information

Certifications: Full-Stack Web Development Bootcamp, Tata — GenAI Powered Data Analytics Job Simulation
Interests: Tech blogs, micro-projects, open source, cricket
Languages: English (Proficient), Kannada (Native), Hindi (Intermediate), Telugu (Intermediate)