GANESH KANURI

AI Engineer & Software Developer | Python, LLMs & Applied Machine Learning | UK-Based (Part-Time)

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PROFESSIONAL SUMMARY

Software Developer with hands-on Python experience and a proven track record delivering production-grade React.js and Node.js applications used by 500+ active users. Currently completing an MSc in Artificial Intelligence with Advanced Practice at Teesside University, where coursework covers the mathematical foundations of machine learning, model development, and data-driven system design. Comfortable working with data end-to-end — cleaning, analysing, and feeding it into AI/ML applications — and building the APIs and backends that put ML and AI-driven features in front of real users. Seeking a part-time role applying full-stack engineering and applied AI/ML skills within a professional engineering team.

TECHNICAL SKILLS

AI / ML & Data: Python, Pandas, NumPy, Scikit-learn, Matplotlib, Seaborn, Random Forest, Logistic Regression, applied ML coursework covering probability theory, Bayes' Theorem and hypothesis testing

AI APIs & Integration: REST API design and integration (Twilio, Razorpay), experience wiring ML APIs into production backends, building data pipelines that feed AI-driven features

Front-End: React.js, JavaScript (ES6+), Next.js, HTML5, CSS3, Tailwind CSS, Bootstrap

Back-End & Cloud: Node.js, Express.js, PostgreSQL (Supabase), MongoDB Atlas, SQLite, Render, Vercel, CI/CD Pipelines

Tools & Workflow: Git, GitHub, JIRA, TypeScript, OOP, Agile/Scrum, Unit Testing, Debugging

AI/ML & FULL-STACK PROJECTS

MedAudit-AI (In Progress)

Node.js, Python, ML Integrations

- Architecting a healthcare administration platform that uses AI to automate triage routing and generate discharge letter summaries — direct hands-on work applying AI models to unstructured data for a real-world use case.
- Building scalable Node.js backends that call ML APIs, with a projected 40% improvement in document processing efficiency and reduced administrative overhead.

Predictive Modeling (Classification & Fairness)

Python, Scikit-learn, Pandas

- Built and evaluated supervised classification models (Random Forest, SVM) in Python for employee promotion prediction and passenger survival classification.
- Ran 10-fold cross-validation and hyperparameter tuning via GridSearchCV, achieving robust predictive performance while checking for unbiased outcomes across demographic subgroups — hands-on practice preparing and reasoning about data before it reaches a model.

Church Web Application & Admin Portal

React.js, Node.js, Supabase

- Architected a single-page React.js application serving as the primary engagement platform for a 300+ member congregation, lifting digital engagement metrics by 40%.
- Integrated a full-stack Razorpay payment gateway for multi-currency donations, processing 150+ transactions with zero dropped requests.
- Optimised state management and client-side caching, cutting redundant API calls to PostgreSQL by 30% and manual reconciliation effort by 25%.

WORK EXPERIENCE

Software Developer Intern — PTCG

Mar 2025 – Mar 2026

Hyderabad, India (Remote / Part-time)

- Developed and maintained Piazza360, a real-time business intelligence platform, using Next.js and TypeScript, engineering front-end architecture across 12 key modules.
- Optimised application performance via code splitting and asset minification, reducing page load time by 35% for 1,000+ active users.
- Built 5 new feature modules end-to-end with Tailwind CSS, delivering responsive, accessible UI aligned to strict design specs.

- Implemented unit testing and manual testing/debugging across 15 core user flows, resolving 20+ functional issues prior to release.
- Collaborated within a 6-developer Agile team — sprint planning, code reviews, backlog grooming — using Git and JIRA workflows.

EDUCATION

MSc Artificial Intelligence with Advanced Practice *Sep 2026 – Present*

Teesside University, Middlesbrough, UK

- Coursework in the mathematical foundations of machine learning: probability theory, Bayes' Theorem, and hypothesis testing.
- Academic project: engineered an anomaly detection system for financial datasets using unsupervised ML algorithms, identifying fraudulent transactions with 92% precision.

B.Tech Computer Science Engineering — CGPA 7.6/10.0 *Sep 2021 – Jun 2025*

Gudlavalleru Engineering College, India

CERTIFICATIONS & ADDITIONAL INFORMATION

- AWS Certified Machine Learning Engineer Associate — preparation in progress.
- Full Stack Developer Internship Certificate — PTCG.
- Based in Middlesbrough, UK; eligible for part-time work with immediate, flexible availability around university schedule.
- Comfortable working independently and within Agile teams in fast-paced environments.