SATYAM KULKARNI

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PROFILE SUMMARY

AI & Data Science undergraduate skilled in C++, Python, DSA, and SQL. Engineered and deployed ML models, conducted comprehensive data analysis, and developed production-ready AI systems using Pandas, NumPy, Matplotlib, and Scikit-learn. Spearheaded open-source contributions (GSSoC) — ranked 233 among 40,000+ participants. Passionate about building practical AI solutions and exploring modern AI frameworks.

EDUCATION

B.Tech – Artificial Intelligence & Data Science 2024 – Present (Expected: 2028)

AISSMS Institute of Information Technology (IOIT), Pune | CGPA: 8.03

TECHNICAL SKILLS

Programming Languages: C++ · Python · SQL
Libraries: NumPy · Pandas · Matplotlib · Scikit-learn · Seaborn
ML & Data Science: Data Analysis · Data Visualization · Statistical Modelling
Core CS: Data Structures & Algorithms · OOP · Problem Solving
Domain: Machine Learning Algorithms · Data Science · AI Based Development · Open Source Contribution
AI Tools & APIs: Google Gemini API · OpenAI GPT-4o · IBM Watson · AI Copilots
Platforms & DevOps: Git & GitHub · Streamlit · Vercel · Antigravity

PROJECTS

SecureCode – AI-Powered Secure Code Review Tool [GitHub]

- Engineered an AI-driven tool using GPT-4o & Gemini API to scan codebases and generate OWASP-aligned vulnerability reports; integrated static analysis for injection flaws, broken authentication, and insecure dependencies.
- Deployed an interactive Streamlit UI for real-time code uploads and structured security feedback, leveraging Python, Git, and AI copilot tools throughout development.

Foodie Intelligence System – Smart Food Recommendation Engine [GitHub] [Live] [Blog]

- Designed a food recommendation system analyzing order history, time-of-day patterns, and location trends using Pandas, NumPy, and Seaborn; formulated SQL filters and transformed them into a Python recommendation engine.
- Deployed on Vercel with a Streamlit frontend; documented the full data-to-product journey in a technical blog on Medium.

Fraud Detection – FinTech ML System [GitHub]

- Developed a supervised ML pipeline (Logistic Regression, Random Forest, Gradient Boosting) with Scikit-learn; handled class imbalance, engineered features, and evaluated models using precision, recall, and F1-score metrics.
- Produced interpretable outputs to support data-driven fraud prevention decisions on real-world-inspired fintech datasets.

TECHNICAL WRITING

From Raw Data to Smart Food Recommendations: A Complete Data Project [Blog]

- Authored a technical blog documenting the Foodie Intelligence System — covering data collection, exploratory analysis using Pandas, NumPy & Seaborn, SQL-to-Python pipeline transformation, and Vercel deployment, presenting complex data insights in a clear and accessible format.

OPEN SOURCE CONTRIBUTIONS

Open Source Contributor | GirlScript Summer of Code (GSSoC) & GitHub

- Contributed to 3+ active repositories spanning ML, JavaScript, and OS integration — implemented features, resolved issues, and optimised code; ranked 233 among 40,000+ participants.
- Collaborated with maintainers via structured GitHub workflows (branching, PRs, code reviews, merges); contributed to multiple ML-based open-source projects building a track record of clean, well-documented code.

LEADERSHIP EXPERIENCE

Technical Secretary | ACM Student Chapter, AISSMS IOIT Present

- Spearheaded technical workshops, hackathons, and knowledge-sharing sessions; managed event logistics and coordinated volunteers across multiple technical domains.

Technical Team Executive | IEEE Student Branch, AISSMS IOIT 2024 – 2025

- Organised IEEE-sanctioned technical events and seminars; coordinated with faculty advisors to execute programs promoting engineering excellence and professional development.

ACHIEVEMENTS

- Ranked 233 (and rising) among 40,000+ participants – GSSoC Open Source Contribution Program.
- LeetCode badge holder for consistent problem solving – demonstrates algorithmic thinking and competitive coding discipline.
- District-level cricket player with competitive tournament experience — reflects teamwork, discipline, and performance under pressure.