SATHWIK NAAG SANKURU

SOFTWARE DEVELOPMENT ENGINEER | JAVA DEVELOPER | FULL STACK DEVELOPER

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PROFILE

Final-year B.Tech Computer Science (Data Science) student with strong foundations in Java, Python, Data Structures & Algorithms, Object-Oriented Programming, DBMS, and RESTful application development. Experienced through internships in full-stack software development and machine learning, with hands-on work building scalable web applications, recommendation systems, and deep learning models. Passionate about designing efficient software solutions, solving complex engineering problems, and collaborating in Agile development environments.

EDUCATION

GITAM University Hyderabad (2023 - 2027) | B.Tech - CSE Data Science **CGPA : 7.72**

CORE SKILLS

Programming Languages: Python | Java | JavaScript | SQL | HTML | CSS | C | R

Core Computer Science: Data Structures & Algorithms | Object-Oriented Programming | DBMS | REST APIs | Problem Solving

Frameworks & Libraries: React.js | FastAPI | TensorFlow | Scikit-learn | OpenCV | NumPy | Pandas

Databases: MySQL | PostgreSQL | MongoDB

Developer Tools: Git | GitHub | GitLab | VS Code | IntelliJ IDEA | Google Colab

Development Practices: Agile Development | Cross-functional Collaboration | Technical Documentation

EXPERIENCE

AI/ML Intern – Iris Flower Classification Project | BITS Pilani – Hyderabad Campus (7-Week AI/ML Internship)

- Built a Machine Learning classification model using Logistic Regression to classify Iris flower species.
- Performed data preprocessing, train-test splitting, feature analysis, model training, and evaluation using Scikit-learn.
- Evaluated model performance using classification metrics and optimized prediction accuracy.
- Saved and deployed the trained model using Joblib for future inference.
- Tech Stack: Python, Scikit-learn, Pandas, NumPy, Joblib | Google Colab Link

Full Stack Developer Intern (UI/UX & Full Stack Developer) | Swecha.ai (May 2026 – Jun 2026)

- Collaborated with developers and stakeholders to redesign production web platforms, delivering scalable and user-focused software solutions.
- Contributed to the development and improvement of the official Activity Tracker platform by enhancing application workflows, navigation, and overall usability.
- Redesigned the official Swecha website with responsive layouts and reusable UI components while maintaining consistency across the application.
- Worked in an Agile development environment using Git and GitLab for collaborative software development and version control.
- Participated in design discussions, requirement analysis, iterative development, and cross-functional collaboration throughout the development lifecycle.
- Selected Contributions & Project Repositories: GitLab Link

PROJECTS

DigAlert – Smart Permit Intelligence Platform

- Developed a full-stack civic technology platform serving citizens, utility agencies, and administrators through role-based dashboards and streamlined digital workflows.
- Built responsive interfaces and integrated backend services to support permit management, complaint tracking, analytics dashboards, and interactive mapping.
- Improved application usability through structured navigation, scalable component design, and efficient information organization.

Tech Stack: React.js, FastAPI, PostgreSQL, Tailwind CSS, Recharts, Leaflet | Vercel Link

Traffic Sign Recognition System (CNN)

- Developed a Deep Learning model using Convolutional Neural Networks (CNNs) to classify 43 traffic sign categories using the German Traffic Sign Recognition Benchmark (GTSRB) dataset.
- Built an end-to-end image classification pipeline involving image preprocessing, normalization, data augmentation, model training, validation, and inference.
- Optimized model performance using dropout regularization and the Adam optimizer, achieving 99.65% test accuracy.
- Evaluated model performance using Accuracy, Precision, Recall, and F1-score.
- Applied TensorFlow and OpenCV for image processing and model development.

Tech Stack: Python, TensorFlow, OpenCV, NumPy | Google Colab Link

Online Learning Recommendation System

- Developed a hybrid recommendation system using KNN, TF-IDF, and Singular Value Decomposition (SVD) to generate personalized course recommendations.
- Processed user interaction data including ratings, clicks, and learning history to improve recommendation quality.
- Performed feature engineering, similarity computation, and recommendation ranking.
- Evaluated recommendation performance using MAE, RMSE, and F1-score.

Tech Stack: Python, Pandas, Scikit-learn, MySQL | Google Colab Link

ACTIVITIES

- **Graphic Designer** with 200+ Creative Works | Portfolio Link
- **Campus Student Leader – Operations, Design & Media (ODM)** for the academic year 2026 - 2027.
- Participated in **Hack2Skill** coding competitions.
- **AIU**(All India-Inter University Tournament) Esports Team Captain.
- **Google Cloud Study Jams** – Completed Cloud & AI Learning Program