SATHWIK NAAG SANKURU

MACHINE LEARNING ENGINEER | AI/ML ENTHUSIAST | DATA SCIENTIST

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PROFILE

Final-year B.Tech Computer Science (Data Science) student with strong foundations in Machine Learning, Deep Learning, Computer Vision, Python, and Data Structures & Algorithms. Experienced in building CNN-based image classification models, recommendation systems, and end-to-end machine learning pipelines involving data preprocessing, model training, evaluation, and optimization. Passionate about applied AI research, neural networks, computer vision, and solving real-world problems through scalable AI solutions. Strong analytical, problem-solving, and collaborative skills with hands-on experience developing projects using TensorFlow, Scikit-learn, OpenCV, and Python.

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

Machine Learning & Deep Learning: Machine Learning | Deep Learning | Computer Vision | Convolutional Neural Networks (CNNs) | TensorFlow | Scikit-learn | OpenCV | Image Classification | Model Training | Model Evaluation | Data Preprocessing | Data Augmentation | Feature Engineering | Exploratory Data Analysis (EDA) | Data Visualization

Libraries & Tools: NumPy | Pandas | Joblib | Google Colab | Git | GitHub | VS Code | IntelliJ IDEA | RStudio

Core Computer Science: Data Structures & Algorithms | Object-Oriented Programming (OOP) | Database Management Systems (DBMS) | REST APIs | Problem Solving

Collaboration & Workflow: Git | GitHub | GitLab | Agile Development | Cross-Functional Collaboration | Problem Solving | 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)

- Led the UI/UX redesign of the official Activity Tracker platform, improving usability, navigation, information architecture, and overall workflow efficiency through user-centered design principles.
- Redesigned the official Swecha website with a focus on accessibility, responsive design, visual hierarchy, and improved user engagement while maintaining brand consistency.
- Created modern interface patterns, dual-theme experiences, reusable design systems, and glassmorphism-inspired components to enhance usability and visual appeal.
- Conducted design evaluations and iterative improvements to simplify user journeys, reduce friction points, and improve content discoverability.
- Collaborated with developers, designers, and stakeholders to translate requirements into intuitive digital experiences and production-ready interfaces and deliver scalable user-centered digital experiences.
- Selected Contributions & Project Repositories: GitLab Link

PROJECTS

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 250+ 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