Samarth Satish Airani

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Education

Nitte Meenakshi Institute of Technology — Bangalore, Karnataka
B.E. in Information Science and Engineering — CGPA: 8.49 — *Nov. 2022 – June 2026 (Expected)*

Vidyaniketan PU College — Hubli, Karnataka
Pre-University Course (XII) — 81% — *June 2019 – March 2021*

KLE English Medium School (CBSE) — Hubli, Karnataka
Secondary School (X) — 80.6% — *April 2018 – March 2019*

Summary

Results-driven Information Science and Engineering student with skills in Java and SQL, and hands-on experience in AI/ML and software solutions. Built projects including a CNN-based healthcare diagnostic system and a library management system integrating MySQL with Java via JDBC. Familiar with Git, database management, and computer networks, with a focus on creating scalable and efficient applications.

Experience

AI Intern – IEEE Bangalore CS Chapter — **Apr. 2025 – Present**
Remote, Bangalore, India

- Built a stacked ensemble phishing detector (Random Forest + XGBoost) with 41 engineered features on 247K+ URLs, achieving 97.3% accuracy and 97.5% F1-score.
- Optimized performance using Optuna hyperparameter tuning, ROC-AUC validation, and feature importance analysis.

Projects

Smart Healthcare Assessment using CNN

- Developed a CNN to detect pneumonia from chest X-ray images, achieving high accuracy and recall.
- Preprocessed images using OpenCV and applied data augmentation for generalization.
- Integrated the model into a Flask-based web app for real-time predictions.

Library Management System

- Engineered a Library Management System in Java with OOP design for books, users, and transactions.
- Integrated MySQL via JDBC, enabling real-time CRUD operations and inventory updates.
- Built an interactive console for dynamic user input and data visualization.

Technical Skills

Languages: Java, SQL
Developer Tools: Git, Jupyter, PyCharm, IntelliJ
Technologies/Frameworks: Linux, GitHub

Certifications

Oracle Cloud Infrastructure 2025 Certified AI Foundations Associate

Publications

Conference Presenter – COMPUTINGCON 2025 — **Sept 2025**
DY Patil University, Ambi, Pune

- Presented paper titled *"Ensemble-Based Phishing URL Detection: A Stacking Framework with Real-Time Deployment"* at the 2025 International Conference on Computing and Communications (COMPUTINGCON).

Conference Presenter – ICERECT 2025 — **Sept 2025**
P. E. S. College of Engineering, Mandya

- Presented paper titled *"Stability and Consistency Analysis of SHAP and LIME Explanations Across Machine Learning Models"* at the Fifth International Conference on Emerging Research in Electronics, Computer Science and Technology (ICERECT-2025), technically sponsored by IEEE Bangalore Section.

Leadership / Extracurricular

NSS Volunteer – National Service Scheme — **2023 – 2025**
NMIT, Bangalore

- Engaged in community service initiatives such as cleanliness drives, blood donation camps, and awareness campaigns.
- Promoted health, education, and environmental awareness in local communities.

Tech Lead – DataWiz Club — **2024 – Present**
NMIT, Bangalore

- Leading the technical team of the DataWiz student club, focusing on AI/ML, data science, and research-driven projects.
- Organizing a college-level hackathon to promote innovation and hands-on problem solving among students.
- Coordinating a tech talk series with industry professionals to bridge the gap between academia and industry practices.