Sufiyan Ahmed S A

AI/ML Engineer & Software Developer

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🌐 sufiyan-2003.github.io/Sufiyan-Portfolio.github.io • in sufiyan-ahmed-506164259

⌨ Sufiyan-2003 • Born: May 16, 2003

Professional Summary

AI/ML Engineer and Software Developer experienced in Machine Learning, Deep Learning, NLP, Computer Vision, and full-stack web development. Skilled in model training, system design, and API deployment. Passionate mentor who has trained 150+ students through workshops and hackathons.

Education

PES Institute of Technology and Management   **Shivamogga**

B.E. in Artificial Intelligence & Machine Learning, Expected 2026   *2022–2026*

Relevant Coursework: ML, DL, NLP, CV, Mathematics for AI, MERN Stack

Technical Skills

Programming: Python, JavaScript, Java, C, SQL, Object-Oriented Programming

Data Science: NumPy, Pandas, SciPy, Matplotlib, Seaborn

Machine Learning: Linear & Logistic Regression, Decision Trees, Random Forests, Gradient Boosting (XGBoost, LightGBM), scikit-learn

Deep Learning: Neural Networks, CNNs, Model Fine-tuning, TensorFlow, PyTorch

NLP & LLMs: DistilBERT, Tokenization, Text Classification, Large Language Models (LLMs)

Computer Vision: OpenCV, Image Processing, Feature Extraction

Web & APIs: Flask, REST APIs, Model Serving, Backend Integration

Databases: MongoDB, MySQL, Firebase

Cloud & DevOps: Docker, Cloud-Based Platforms, Deployment Pipelines

Tools: Git, GitHub, Heroku

Professional Experience

Webschedio Pvt. Ltd.   **Shivamogga**

Full-Stack Developer Intern   *Mar–Jul 2024*

○ Built responsive UI components using React, HTML, CSS, JavaScript

○ Integrated REST APIs and improved UI/UX consistency

○ Developed reusable components boosting dev efficiency by 30%

Key Projects

Early Detection of Cardiovascular Disease (Final Year Project)   *2026*

Technologies: IoT (PPG and ECG Sensor, ESP32-C3), LSTM, FastAPI, Firebase, React Native, Python

○ Developed an IoT-enabled wearable system to monitor ECG, heart rate, and SpO_2 in real time using ESP32 and cloud integration.

○ Implemented an LSTM-based deep learning model trained on the MIT-BIH ECG dataset for accurate cardiovascular risk prediction.

○ Built a FastAPI backend and React Native app to display live vitals, risk scores, and AI-generated health insights for preventive care.

NewsSense — AI News Classifier
Technologies: DistilBERT, Flask, NLP

- Fine-tuned DistilBERT achieving 92% accuracy
- Built production-ready Flask inference API
- Implemented optimized preprocessing & class balancing

AI Smart Hiring System (Virtual Hiring Platform)
Technologies: Python, Machine Learning, Flask, SQL, Docker

- Designed an AI-driven system for automated candidate screening
- Applied ML techniques for resume analysis and candidate scoring
- Built Flask-based REST APIs for recruiter interaction

Real-Time AQI Monitoring System
Technologies: Flask, WAQI API, JavaScript

- GPS-enabled AQI tracker with live updates
- Visualized AQI trends using interactive charts
- Built auto-refresh environmental monitoring

Scam Email Detection Tool
Technologies: ML, Python

- Hybrid ML + rule-based phishing detection
- Behavior-aware threat analysis
- Achieved 88% detection accuracy

Image Steganography Web App
Technologies: Flask, Cryptography

- AES-encrypted LSB steganography
- PSNR-based quality check
- Simple UI for secure message handling

Teaching & Mentorship

- Conducted 6-day Full-Stack Development workshop for 60+ AIML students
- Mentored 150+ students in AI/ML, web dev, and project building
- Guided multiple teams in WE-ENV 12-hour hackathon

Achievements

- Delivered 10+ AI/ML & full-stack projects end-to-end
- Recognized for technical mentorship and departmental contributions
- Active open-source and community educator

Certifications

2021: Hardware & Networking — Training in PC hardware, diagnostics, and network setup
2024: Generative AI Workshop — NxtWave
2024: Full-Stack Development Workshop Certification
2024: Machine Learning Specialization — Professional Development