Farid Ahmad Shaikh

Mumbai, India
 → +919373511150
 ■ faridahmadshaikh4@gmail.com
 ⊕ https://farid-sk-33.github.io/farid/

Summary

- Passionate AI/ML Developer specializing in computer vision, big data analytics, and scalable full-stack development.
- Skilled in Python, R, SQL/MySQL for advanced data analysis, visualization, and large-scale database management systems.
- Experienced in designing and deploying YOLO and TensorFlow Lite pipelines for real-time intelligent vision applications.
- Proficient in predictive modeling, statistical analysis, and machine learning algorithms for data-driven decision-making.
- Adept at integrating AWS services, automating workflows, and delivering scalable, very secure analytics solutions.

Education

Master of Technology [Electronics Engineering (Specialization in Edge-based AI)]

July 2025

K. J. Somaiya College Of Engineering (CGPI: 9.34/10.0)

Mumbai, Maharashtra

Experience

Smart I Systems Pvt Ltd

July 2023 - Present

Software Developer (Intern \rightarrow Full-time)

- Developed and deployed AI/ML solutions using YOLO and TensorFlow Lite for advanced real-time detection systems.
- Conducted big data analytics and built responsive web applications integrating AWS S3 for secure data storage.
- Gained hands-on experience in custom object model training and MariaDB handling during initial internship period.
- Completed TATA internship in data analytics, creating data visualizations for strategic business decision-making
- Served as Python Scholar at Two Waits Technologies, applying real-world Python concepts to practical projects.

Projects

Smart Al-Based Surveillance and Safety Monitoring System

- Designed edge-level AI surveillance using Python, OpenCV, TensorFlow Lite, YOLOv5, and NXP i.MX8M Mini.
- Developed detection for face mask, helmet, crowd, loitering, and camera masking under strict resource limitations.
- Integrated SQLite database, Flask backend, and RTSP streaming for real-time AI event monitoring and analytics.
- Optimized models for edge deployment, ensuring low latency and reliable performance despite hardware constraints.

HMI For E-Surveillance IoT Panel In Smart Multi-location Facility Management System

- Developed HMI integrating IP camera visualization using GStreamer pipelines and real-time sensor data graph rendering.
- · Utilized Python, Matplotlib, PySide6, QtPy, and R for advanced analytics and interactive visualization capabilities.
- Implemented MySQL, AWS, and Linux integration to support centralized monitoring and control multiple locations.

Anti Riot Drone with Tear Gas (Crowd Detection)

- Designed autonomous drone system for law enforcement crowd monitoring and riot management using AI detection.
- Implemented MobileNet model for accurate real-time crowd detection and density analysis in dynamic environments.
- Integrated PIR sensors to enhance detection reliability and ensure rapid response during critical security events.
- Enabled automated tear gas deployment for controlled, targeted crowd dispersal with minimal collateral impact.

Technical Skills

Languages: Python, Java, Javascript, R language **Web Development**: Html, CSS, Flask-Python **Databases**: SQL (MariaDB), SQLite / MySQL

Concepts: Artificial Intelligence, Machine Learning, Neural Networks, API, REST APIs, Computer Vision, Edge Al Developer Tools: Git, Github, Docker, Kaggel, Hugging Face, PuTTY, VScode, Google Colab, Postman, Jupyter Notebook

Operating Systems: Linux (Ubuntu, Raspberry Pi OS), Windows

Co-curricular & Achievements

Earned M.Tech sponsorship from Smart-I Systems.	2023-2025
Published research in reputed Scopus journal.	2025
 Secured 1,45,000 rupees funding for Anti-Riot Drone 	2023
Directed flagship national-level sports event.	2022
Led security operations at major college fests.	2022