ARYA MADDEL

ML Engineering Student

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OBJECTIVE - Seeking a role in Machine Learning, Embedded Systems, or Full-Stack Development to apply skills in Python and systems engineering on impactful, real-world projects.

EXPERIENCE

- **Project Lead / Full-Stack Developer: Sujalam Chemicals** | May 2023 – Aug 2023
  Built a cross-platform inventory management app (Android/iOS) using React Native, Express, SQLite, Ngrok; handled UI, backend, and database.
- **Project Lead: Aerial Mappers & Surveyors LLP** | Jan 2024 – Mar 2024
  Developed an autonomous drone system with variable payload capability using the Pixhawk open-source flight controller.

EDUCATION

- Bachelor of Technology in Computer Science and Engineering | DES Pune University | CGPA: 8.7 | Aug 2024 – Jun 2027
- Diploma in Computer Engineering | Sou. Venutai Chavan Polytechnic | 87% | Sep 2021 – Jun 2024

PUBLICATIONS

- **Arya Maddel**, Adaptive Hybrid Architecture for NRIQA. **Accepted for publication and presentation** at the International Conference on Emerging Technologies & Future Innovations (ETFI 2026), IEEE (to appear).

PROJECTS

- **DIQA** - A No-Reference Image Quality Assessment (NR-IQA) framework with a unified interface for multiple state-of-the-art methods and a routing mechanism to select the optimal model. (Paper accepted at IEEE ETFI Conference, 2026)
- **DESocial -** Designed and developed a centralized social and AI-enabled application for college-wide use, integrating multiple student services into a single platform. Currently being modularized into a reusable template for deployment across other universities.
- **Inventory Management System** - Designed and implemented an end-to-end inventory tracking system with role-based access, real-time stock updates, and database-backed reporting for a manufacturing client (Sujalam Chemicals).
- **Autonomous Drone -** Built an autonomous drone platform using a Pixhawk flight controller, implementing waypoint navigation, payload handling, and flight parameter tuning for delivery-oriented use cases.

Additional projects, experiments, and source code are available at: github.com/aryamaddel