

ARYA MADDEL - Machine Learning Engineer

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Machine Learning Engineer with experience in advanced Image processing research, MLOps pipelines, and production-ready AI systems. Interested in building scalable ML architectures and applied AI solutions.

EXPERIENCE

- Machine Learning Intern: In2Peta Services Private Limited | Feb 2026 - Jul 2026

Built and deployed ML pipelines in Python and Docker, automating training, versioning, and deployment through CI/CD workflows.

- 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.

- 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.

PROJECTS

- **DIQA** - No-reference image quality assessment framework with dynamic model routing to select the best NR-IQA model based on low-cost perceptual features; published at ETFI 2026.
- **DESocial** - Centralized social and AI-enabled platform for college-wide use; integrates multiple student services and is being modularized for multi-university deployment.
- **Inventory Management System** - Role-based cross-platform inventory app with real-time updates and reporting for a manufacturing client.
- **Autonomous Drone** - Pixhawk-based drone platform with waypoint navigation, payload handling, and flight tuning for delivery use cases.

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
- ICSE Board | Hutchings High School | 92 % | 2011-2021

PUBLICATIONS

Maddel et al., “**Adaptive Hybrid Architecture for NRIQA**,” in *Proceedings of the 2026 International Conference on Emerging Technologies and Future Innovations (ETFI)*, Pune, India, 2026, pp. 1-7, doi: 10.1109/ETFI68128.2026.11484766. Proposes a dynamic routing pipeline that predicts and executes the optimal NR-IQA model using low-cost perceptual features and a gradient-boosted classifier, reducing latency while maintaining performance comparable to deep models like HyperIQA.