

SWARALI AMRUTKAR

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EDUCATION

Bachelor of Technology, Information Technology
CGPA: 9.02/10.0, Cummins College of Engineering for Women

Oct 2022 - Jun 2026
Pune, India

WORK EXPERIENCE

Google Jun 2025 - Aug 2025
Software Engineering Intern Bangalore, India

- **Architected and deployed unified Ad Strength backend service** consolidating 2 separate legacy services for Search & PMax campaigns in Google Ads Mobile App, **reducing maintenance overhead by 60%** and enabling feature expansion.
- **Enhanced ad quality scoring logic** by adding support for new features, improving recommendation **accuracy by 15%** and driving an **8% increase** in advertiser CTR.
- **Implemented structured activity logging, unit and integration tests**, reducing debugging time by **25%** and authored clear **technical documentation** for long-term service maintainability.
- **Tech Stack:** Dart, Flutter, Java, gRPC, Protocol Buffers, GCL files

Zephroids Oct 2025 - Present
Machine Learning Intern Pune, India

- Engineered end-to-end Python + OpenCV + OCR pipeline to extract SKU codes from drone-captured warehouse imagery, **automating 90% of manual scanning** and processing 10k+ images daily with **94% detection accuracy**.
- Designed adaptive image preprocessing pipeline (denoising, contrast normalization, perspective transformation) that **improved OCR recall by 28%** on low-quality warehouse images.
- **Parallelized pipeline execution using multiprocessing**, reducing inference runtime by **40%** and enabling near real-time analysis for operations.

PROJECTS

Verdict IQ: AI Legal Statement Analyzer | *Python, SpaCy, NLTK, StreamLit*

[GitHub](#)

- Engineered NLP classifier detecting suspicious patterns in witness statements with **87% F1-score** and **18% improvement over baseline methods** across 50k+ legal documents.
- Developed a robust feature extraction pipeline using sentiment analysis, entity recognition, bigram probabilities, and word sense disambiguation to identify contextual deception markers.

Robin Hood Army (NGO) | *HTML, CSS, JavaScript, PHP, MySQL*

[GitHub](#)

- Developed full-stack web platform automating donation submission, status tracking, volunteer assignments, and analytics dashboards, **reducing manual coordination by 40%**.
- Built **role-based access system** for 3 user types with automated task workflows.

SKILLS

Programming Languages: Java, Python, Dart, JavaScript, MySQL

Frameworks/Tools: Flutter, React.js, OpenCV, Git, VS Code, Bootstrap

CS Fundamentals: Data Structures & Algorithms, Object-Oriented Programming, DBMS, AI, ML, NLP

ACHIEVEMENTS

- **Dell STEM Aspire Program:** Selected as **1 of 18 mentees** from 600+, mentored by industry leaders.
- **Institute Finalist, Smart India Hackathon:** Worked on integrating traditional medicine codes into EMRs to improve interoperability.
- **1st Runner-Up, Debugging Competition:** Top 2 of 400+ participants for advanced problem solving skills.
- Solved **600+ DSA problems** across major platforms.

POSITIONS OF RESPONSIBILITY

- **IT Branch Representative, Student Council :** Led cultural & technical events for 2000+ participants.
- **Student Representative, Career Guidance Cell :** Coordinated placements and career readiness programs.
- **Active Volunteer, Bhumi NGO :** Led educational initiatives impacting 200+ underprivileged children.