Ashish Sarda

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EDUCATION

Dr. Babasaheb Ambedkar Technological University Raigad, Maharashtra
Bachelor of Technology in Electronics and Computer Engineering *Aug 2023 – Present*
Maharashtra State Board of Technical Education Mumbai, Maharashtra
Diploma in Computer Engineering *Nov 2020 – Jul 2023*

EXPERIENCE

AI/ML Engineer Intern Oct 2025 – Feb 2026
Shamgar Software Solutions *Visakhapatnam, Andhra Pradesh*

- Architected end-to-end ML pipelines for preprocessing, training, and evaluation, reducing experimentation cycles by **30%**.
- Optimized supervised learning models on **50k+ samples**, improving validation accuracy by **6–10%**.
- Deployed Dockerized inference services on AWS, maintaining **99% uptime** in internal environments.
- Integrated ML models into backend APIs to enable real-time predictions for **3+ internal tools**.
- Executed agile workflows with sprint planning and code reviews, improving iteration speed and code stability.

Backend Developer Intern Jul 2025 – Aug 2025
Codex Technologies *Remote*

- Implemented RESTful APIs using FastAPI and PostgreSQL, supporting **1k+ daily requests** in staging.
- Secured endpoints with authentication and schema validation, reducing invalid requests by **40%**.
- Tuned database queries and indexing, lowering average response latency from **420ms to 260ms**.
- Containerized backend services with Docker, standardizing deployment workflows.

PROJECTS

Morphshield | *Python, PyTorch, Flask, React, Docker, AWS* Jun 2024 – Oct 2024

- Engineered a deepfake detection pipeline achieving **92% accuracy** on benchmark datasets.
- Trained CNN-based models on **10k+ images/videos** with augmentation to improve generalization.
- Exposed real-time inference through Flask APIs integrated with a React interface under **1.2s latency**.
- Deployed containerized services on AWS to support scalable inference workloads.

PravasMitra (AIoT Smart Safety System) | *Python, ESP32, IoT, Cloud* Jan 2024 – May 2024

- Designed an AIoT architecture integrating ESP32 sensors with cloud-based monitoring services.
- Streamed real-time sensor data and alerts, delivering emergency notifications within **<3 seconds**.
- Validated system reliability across continuous test runs with **95%+ connectivity stability**.

Factio | *Python, OpenCV, Face Recognition* Aug 2023 – Dec 2023

- Built a face recognition system supporting **100+ identities** with real-time camera input.
- Optimized detection pipelines, reducing per-frame processing time by **35%**.
- Improved recognition precision under varied lighting using preprocessing and tuning techniques.

TECHNICAL SKILLS

Languages: Python, JavaScript, SQL, C/C++, Java

Machine Learning: PyTorch, Computer Vision, Model Training, Evaluation Metrics, Inference Optimization

Backend: FastAPIs, Flask, REST APIs, PostgreSQL

Cloud & DevOps: AWS, Docker, Git

Tools: Linux, VS Code, Postman