Disha Sawant

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Education

Master of Science - Computer Engineering San Diego State University | 2024 – 2026 | GPA: 3.7
Bachelor of Engineering - Computer Engineering Mumbai University | 2018 – 2022 | GPA: 3.9

Relevant Experience

AI Application Intern - Ema Unlimited | Mountain View, CA *Jun 2025 – Aug 2025*

- Built AI-driven operational automation systems using LLM-based extraction and classification agents for enterprise-scale insurance workflows, improving operational efficiency by 90%.
- Architected real-time ticket orchestration workflows for Zendesk, automating data creation, agent routing, and ticket lifecycle management, reducing manual effort by 82%.
- Developed intelligent recruiting automation pipelines using Ashby APIs and Google Drive integrations to create fully automated candidate processing loops, reducing hiring turnaround time by 75%.

Focus: *Real-time systems, intelligent automation, enterprise data orchestration, system reliability.*

Data Engineer - Image Computers | Mumbai, India *Dec 2022 – Aug 2024*

- Designed and implemented scalable ETL pipelines using Google Dataflow to integrate multi-source operational data across enterprise systems.
- Built predictive maintenance models using TensorFlow to forecast hardware failures, increasing system uptime by 17% and reducing unplanned downtime by 40%.
- Developed automated reporting and monitoring workflows using MySQL, Python, and Google Colab to improve system observability and operational decision-making.

Focus: *Operational data systems, predictive modeling, infrastructure health monitoring.*

Technical Projects

Quadrotor Flight Control & Simulation

- Built a high-fidelity **digital simulation environment** to mirror real-world quadrotor behavior using ROS, Gazebo, and PX4 SITL.
- Implemented a custom PID-based flight controller to enable autonomous takeoff, hover, waypoint navigation, and landing.
- Validated system performance using trajectory analysis, telemetry visualization, and recorded simulation runs.

Technologies: *ROS Noetic, PX4 SITL, Gazebo, MAVSDK-Python, PID Control*

MathUI - Real-Time Handwritten Digit Recognition Platform

- Built an interactive, real-time visual recognition system enabling users to draw inputs and receive live AI predictions.
- Designed real-time visualization pipelines to convert user interactions into predictive system feedback.
- Applied image processing and neural network inference for intelligent decision systems.
- **Technologies:** *HTML Canvas, JavaScript, OpenCV, Python, TensorFlow*

Research Experience

Published Author - International Journal of Advanced Research in Science and Technology

- Published research on **Creative AI Systems**, including Image Colorization, Neural Style Transfer, and Deep Dream Video Generation.
- Explored AI-driven visual system behavior and intelligent media transformation pipelines.
- Paper link: https://ijarsct.co.in/A3319.pdf