

Satya Shah

Mail: sss1494@mavs.uta.edu | M:(+1)6824039713 | [LinkedIn](#) | [GitHub](#)

INTERSHIPS:

-Computer Vision Intern, Avidclan Technologies, Ahmedabad, India

May 2021 –August 2021

- Developed a web app for CT-scan-based kidney tumour detection for a hospital using **transfer learning** (VGG16 with Tensorflow/Keras), achieving **98% recall** and assisting doctors in the early diagnosis of kidney cancer for **500+ patients**.
- Built a complete ML pipeline from data ingestion to model evaluation using version control tools like **DVC**, **Dagshub**, and **MLFlow**.
- Developed a user interface using **HTML**, **CSS**, **JavaScript**, **Flask** for routing, and **MongoDB** for storing patient records.
- Containerized the entire application using **Docker**. Deployed the app on AWS using **CI/CD** with **GitHub Actions**, **ECR**, and **EC2**.

-Computer Vision Intern, Technostacks Infotech Private Limited, Ahmedabad, India

January 2023 –May 2023

- Developed an automated invoice parsing web app using **OCR**, extracting data with **95% accuracy** and enabling **CSV exports** for manufacturers.
- Built with **Python**, **Flask**, **HTML**, **CSS**, **JavaScript**, integrating **MongoDB** and **OpenCV** for OCR processing.
- Implemented **regex-based parsing** for structured invoice data, allowing **updates, additions, and deletions**.

PROJECTS:

-Smart Water Usage Monitoring Platform

November 2024

- Built a **Java (Spring Boot)** service that helped reduce water wastage by 25% in **residential buildings** by showing live water usage from smart sensors.
- Collected sensor data using **AWS IoT Core** and **DynamoDB**, sending alerts for unusual water flow to **prevent leaks**.
- Deployed** the website with **AWS Amplify** and set up auto-updates using **AWS CodePipeline**.

-Spot Crime Visualization Platform

March 2025

- Developed a web application where users can report neighborhood crimes, view live incident updates, upvote incidents, and filter crime history by time, date, and category.
- Integrated **PostgreSQL** database with **Tableau** for real-time crime data visualization, ensuring accurate and dynamic reporting.
- Built the platform using **React.js** for the frontend, **Node.js** for the backend, and deployed it through a **CI/CD pipeline** for smooth and automated updates.

-Online Donation and Fundraising Platform

April 2025

- Developed a web application using **React.js** and **Node.js** that helped users donate to verified social causes and community fundraisers.
- Added features like **real-time donation tracking**, **fundraiser progress bars**, and **secure payment integration** to increase donor trust and transparency.
- Deployed the platform using **AWS EC2** and used **MySQL** for secure data storage, ensuring **99% uptime** for continuous donation access.

TECHNICAL SKILLS:

Programming languages - Python, Java, HTML, CSS, JavaScript

Frameworks- Flask, FastAPI, React.js, Node.js, Langchain

DevOps & version control- Docker, Kubernetes, DVC, Dagshub, MLFlow, GitHub

Databases- MySQL, MongoDB, PostgreSQL, DynamoDB, Pinecone

Data Visualization- Tableau, Excel

Cloud- AWS

EDUCATION:

-Bachelor of Technology (BTech), Computer Science,

August 2019- May 2023

School of Engineering and Applied Science, Ahmedabad University, Gujarat, India

-Masters of Science(MS), Computer Science,

August 2023- May 2025

University of Texas, Arlington, Texas, United States of America, GPA (3.9/4.0)

-Soft Skills: Strong problem-solving skills, excellent written and verbal communication skills, adaptability, Teamwork, critical thinking, time management, attention to detail

-PEDIABOT AI for pediatricians[UTA'25 DATATHON WINNER]: Developed an AI-powered RAG-based chatbot for pediatricians using **Langchain** and **Pinecone**, offering instant, **context-aware medical insights** to support clinical decisions with an average response time under **3 seconds**.