

# DHRUVIN PATEL

Vadodara, Gujarat, India

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## EDUCATION

**CHARUSAT University, Nadiad, Gujarat**

B. Tech in Information Technology.

**2020 - 2024**

CGPA: **9.45/10**

## EXPERIENCE

**Sahajanand Technologies Private Limited (STPL)**

Surat, Gujarat

Python Research and Developer Intern

Dec 2024 - Present

- Developed and implemented a system for accurate detection and analysis of rough diamond laser markings to enhance precision in diamond cutting processes.
- Designed and developed a proprietary algorithm to detect predefined markings on rough diamond surfaces, effectively handling high reflections and irregular surfaces.
- Utilized technologies such as image processing, deep learning, and machine learning to integrate real-time imaging with advanced analysis techniques.

**E-Infochips Private Limited**

Ahmedabad, Gujarat

AI/ML Engineer

May 2023 - July 2023

- Implemented a Hand Gesture Recognition software to accurately identify and interpret various hand gestures for interactive applications.
- Leveraged TensorFlow.js, Handpose, and additional libraries such as React, Webcam, and custom utilities to develop and deploy the hand gesture recognition software.

## PROJECTS

**Disaster-Risk-Monitoring-Using-Satellite-Imagery**

[Github](#)

- Led the development of a satellite imagery-based disaster risk monitoring system, enhancing computer vision and data processing capabilities within a machine learning workflow.
- Utilized NVIDIA's DALI, TAO Toolkit, TensorRT, and Triton Inference Server to optimize and deploy deep learning models, ensuring efficient performance and scalability.

**American-Sign-Language-Model**

[Github](#)

- Engineered an advanced American Sign Language recognition model, integrating convolutional neural networks to significantly boost interpretation accuracy and streamline communication for the deaf community.
- Refined American Sign Language model in Python, using CNNs and data augmentation. Achieved 98.76% accuracy in real-time recognition tests.

**Aadhaar-Card-Validation-Tool**

[Github](#)

- Developed an Aadhaar Card Validation Tool, employing optical character recognition (OCR) to accurately verify the authenticity and details of Aadhaar cards.
- Implemented the validation tool using OCR technology, enhanced with numpy for numerical operations and PIL Library for image processing, ensuring robust performance and accuracy.

## SKILLS

**Languages**

C, C++, Java, Python, Mojo

**Specialized Skills**

Artificial Intelligence, Machine Learning, Deep Learning, Image Processing with Computer Vision, PowerBI

**Database**

MongoDB, SQL

**CS Fundamentals**

Data Structures and Algorithms, OOP, Operating System, DBMS

## ACHIEVEMENTS AND RESPONSIBILITIES

- [Microsoft Certified: Azure AI Fundamentals](#)
- [Microsoft Certified: Azure Data Fundamentals](#)
- [Microsoft Certified: Azure Fundamentals](#)
- [NVIDIA: Getting Started with Deep Learning](#)
- [NVIDIA: Disaster Risk Monitoring Using Satellite Imagery](#)
- [TCS Campus Ambassador Certificate](#)