

SMIT MISTRY

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Education

Sal Engineering and Technical Institute

Bachelor of Engineering in Computer, Minor in Data Science

CGPA is **8.57**

Sep 2021 – Jul 2025

Ahmedabad, Gujarat, India

Experience

Udbhav

May 2024 – Jul 2024

Machine Learning

Ahmedabad, Gujarat, India

- **Extracted 1M+ Images** from **traffic video** and **Processed** and **Optimized** data on **LabelImg** using **Python**.
- **Boosted research by 50%** via **Tesseract OCR** and **Yolov8 Object Detection** model, resulting in **research breakthrough**.
- **Heightened performance by 25%** by implementing **Data Augmentation** and **early stopping** techniques.
- **Produced 20+** visually compelling **plots** for **non-technical** team members with **Tensorflow**.

Smart Shopping Cart

Dec 2023 – Feb 2024

Machine Learning

Ahmedabad, Gujarat, India

- **Led a team of 3** in developing **Deep Learning Models** using **TensorFlow GPU** to groceries.
- **Compiled the dataset by capturing frames** from grocery videos and **annotating them** using **LabelImg**, creating a dataset of **10,000+ images**, and achieving over **70% accuracy** on the test set.
- **Improved accuracy by 20%** using **VGG16 CNN** model for **Object Detection** and **Transfer Learning**.
- **Evaluated model performance** using statistical metrics such as **Precision 85%, Recall 80%, F1-Score 82%**, and **ROC Curve**.

Sal Engineering and Technical Institute | [GitHub](#)

Sep 2023 – Oct 2023

Data Scientist

Ahmedabad, Gujarat, India

- **Automated Result Analysis** by creating the **GTU Result Analyser Web App** using **Python Pandas** library enhancing **data manipulation and analysis**, reducing **manual processing time by 80%**.
- **Enhanced faculty's result analysis efficiency by 60%** via data-driven strategies and **visualization**.
- **Implemented Flask** backend to manage **server-side operations** and **routing**, **Designed a responsive front-end** for raising user accessibility by **45%**.

Projects

SpeechStream | *Transformers, Flask, MongoDB, HTML/CSS/JS* | [GitHub](#)

May 2024 – Jun 2024

- **Created a Flask web application** using fine-tuned **Wav2Vec2** and **SpeechT5** models for **speech-to-text** and **text-to-speech** functionalities.
- **Utilized Hugging Face models** to enhance speech processing capabilities.
- **Engineered backend system** utilizing **Flask framework** and **MongoDB database**, fortifying **login**, and **signup** functionalities with **secure user authentication protocols**; bolstered **data protection** and **streamlined user verification process**, resulting in a **40% decrease in unauthorized access attempts**.

Rajkot Municipal Corporation (RMC) Chatbot | *Dialogflow, FastAPI, MySQL* | [GitHub](#)

Dec 2023 – Dec 2023

- **Integrated Dialogflow's NLP** and **Intent Classification** for efficient user interactions.
- **Utilized FastAPI Python backend** for seamless functionality.
- **Designed intuitive frontend** using **HTML/CSS** for optimal user experience.

Technical Skills

- **Languages:** Python, SQL, Java
- **Libraries:** Scikit-learn, LightGBM, TensorFlow, PyTorch, Keras, MediaPipe, Pandas, NumPy, Matplotlib, NLTK, Seaborn, XGBoost
- **Frameworks:** Flask, FastAPI, BentoML
- **Software / Tools:** MySQL, MongoDB, GitHub
- **Technologies / Concepts:** Agile Methodology, Software Development Life Cycle, RESTful APIs, NoSQL, Machine Learning, Deep Learning, Recurrent Neural Networks, Convolutional Neural Networks, Natural Language Processing

COURSE CERTIFICATIONS

Machine Learning Specialization

Oct 2023 – Dec 2023

Offered by Stanford Online & DeepLearning.ai on Coursera