Siddhi Patel

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Mumbai, Maharashtra, India

EDUCATION

• **Dwarkadas J. Sanghvi College of Engineering**   *Mumbai, Maharashtra*

*B.Tech in Computer Science and Engineering (Data Science) - **CGPA: 9.00***   2022 – 2026

PROJECTS

• **Time Series Forecasting for Metro Train Compressor Predictive Maintenance**   *Nov 2024*

Technologies: Python, ARIMA, Prophet, LSTM, Pandas, NumPy, Tableau   [⊙]

◦ Designed time series forecasting models (ARIMA, Auto-ARIMA, VAR, Prophet, LSTM) to detect anomalies in metro train compressor sensor data, enabling predictive maintenance and minimizing downtime.

◦ Conducted data preprocessing (cleaning, stationarity testing, decomposition, smoothing) and evaluated models using RMSE and MAPE.

◦ Analyzed sensor trends (temperature, pressure, motor current) to optimize maintenance schedules and improve system reliability.

• **Real-Time Data Pipeline for Household Power Consumption**   *Nov 2024*

Technologies: Apache Airflow, Kafka, Spark, Cassandra, Docker, Tableau   [⊙]

◦ Developed a scalable real-time data pipeline for processing and analyzing household power consumption data.

◦ Utilized Docker for containerization and seamless multi-container architecture deployment.

◦ Created Tableau dashboards to visualize power consumption patterns, enabling data-driven decision-making.

• **HR Analytics Dashboard**   *May 2024*

Technologies: Tableau, Data Visualization   []

◦ Designed an interactive Tableau dashboard to analyze HR metrics, including employee performance, attrition, and recruitment efficiency.

◦ Applied advanced visualization techniques to support data-driven HR strategies, improving organizational performance.

INTERNSHIP

• **AurionPro Solutions Limited**   *Synergia IT Park, Rabale, Navi Mumbai - 400701*

Intern, Transaction Banking Department   Jun 2024 – Jul 2024

◦ Worked in the Transaction Banking department, contributing to projects involving facial verification, text extraction, and image annotation.

◦ Designed and implemented a **Facial Verification Model** using **Siamese Networks**, achieving **70% accuracy**.

◦ Tested and evaluated various **Image Annotation Tools** to improve data labeling efficiency.

◦ Researched **Text Extraction Techniques** to enhance document processing and data retrieval.

◦ **Technologies Used**: Python, TensorFlow, PyTorch, OpenCV, Git.

TECHNICAL SKILLS

• **Programming Languages:** Python, Java, SQL

• **Data Analysis & Visualization:** Tableau, Pandas, NumPy, Matplotlib, Seaborn

• **Machine Learning:** Scikit-Learn, TensorFlow, PyTorch, Keras, Deep Learning (CNN, RNN)

• **Databases:** SQL, MongoDB

• **Statistical Analysis:** Regression, Time Series Analysis (ARIMA, LSTM)

• **Computer Vision:** OpenCV, Image Processing

• **Tools:** Git, Jupyter Notebook, Docker

CERTIFICATIONS

• **Tableau for Beginners - Great Learning** Completed: March 2024

◦ Acquired skills in Tableau, Tools and Charts, Tableau Parameters, Strings and Functions, and Visualization Analytics.

SOFT SKILLS

• **Creativity**   Adaptability   Collaboration