

Objective

Aspiring Data Scientist eager to gain hands-on experience and apply analytical skills in real-world projects. Passionate about leveraging data to drive insights and contribute effectively to team objectives.

Experience

DATA SCIENCE

Jan. 2023 – April. 2023 **Data Science Internship**

Maxgen Technologies Pvt Ltd.

Ahmedabad, Gujarat

- Designed and implemented an ETL pipeline for a classification model to predict sentiment improving data preprocessing efficiency.
- Conducted comprehensive Exploratory Data Analysis (EDA) to identify patterns, outliers, correlations, ensuring high-quality data preprocessing for downstream modelling.
- Applied MLOps practices to streamline the deployment process.

Aug. 2022 – Sep. 2022 **Python and Power BI Internship**

Vnurture Technologies

Ahmedabad, Gujarat

- Conducted statistical analysis on sales data and Explored data visualizations using matplotlib & seaborn.
- Developed interactive Power BI dashboard with KPIs and visualizations to support decision-making.

Education

2019-2023

CGPA:7.43

Government Engineering College, Gandhinagar

Bachelor of Electronics & Communication Engineering

2016-2019

Doon School of Excellence, Ahmedabad

Higher Secondary & Secondary Education – Science Stream

Skills

- **Programming Language:** Python, SQL
- **Python Libraries:** Pandas, NumPy, Scikit-Learn, Beautiful Soup (BS4)
- **Databases:** MySQL, PostgreSQL, MongoDB
- **Machine Learning:** Linear Regression, Logistic Regression, Decision Tree, Random Forest, Support Vector Machines (SVM), Naïve Bayes, K-Nearest Neighbours (KNN)
- **Data Analysis:** Exploratory Data Analysis (EDA), Feature Engineering, Feature Selection
- **Data Visualization:** Power BI, Matplotlib, Seaborn
- **Tools & Platforms:** Git, Excel, Pop SQL, Docker, AWS

Projects

See Harsh-Tiwadi.github.io for additional information

MLOps – Customer churn

- Predict customer data to improve retention strategies.
- Built a machine learning model to classify at-risk customers, integrated **MLOps** practices for continuous updates, and automated deployment to production.
- Containerized the churn prediction model using **Docker**, and deployed it to **AWS EC2** for scalable and efficient inference. Automated model updates and deployment using **CI/CD** pipelines.

Exploratory Data Analysis (EDA) – Sales

- Analyze sales data to identify key trends and patterns for better business decision-making.
- Conducted comprehensive EDA to clean, preprocess, and visualize the sales data, followed by building interactive dashboards for insights.
- Used **Python** and **Applied statistics** plus user-friendly **Power BI** dashboards to display **KPIs**, trends.

Predictive Maintenance – Aircraft Engine

- Predict unplanned engine failures to reduce maintenance costs and downtime.
- Built a model using sensor data to forecast failures and schedule preventive maintenance.
- Applied **Random Forest** and **Gradient Boosting** models, leveraged **time-series analysis** for anomaly detection, and deployed for real-time monitoring, resulting in a **25% reduction** in maintenance costs.

Certifications

The Data Science Course – 365 careers

- [Complete data science bootcamp 2024](#)

Backend REST API with Python & Django – Mark Winterbottom, Brooke Rutherford

- [Django rest framework & Docker](#)

Activities

- Collaborative and dedicated to learning MLOps, with contributions to the open-source Zen-ML project.
- Volunteer for college fest decoration & college sport week.
- Participate and emerge victorious in the college fest tournament at DA-IICT.

Declaration

I hereby declare that all the information provided is correct and to the best of my knowledge and belief.