Dhyan Dave

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Education

GLS University — Ahmedabad, Gujurat
Bachelor of Science in Information Technology — *August 2025 – May 2029*

Vedant International School — Ahmedabad
High School — *Aug 2022 – May 2024*

Technical Skills

Languages: Python, C, SQL, C++
Libraries & Technologies: Pandas, Numpy, SciKit-learn, Matplotlib, Seaborn, Foliumn, Vercel
Tools: Jupyter Notebook, Google colab, Anaconda, Github, Excel

Projects

SpaceX Falcon 9 Landing Prediction | *Python, SQL, Pandas, Scikit-learn, Plotly, Folium* Project Link

- Built an end-to-end **machine learning pipeline** to predict Falcon 9 first-stage landing success, directly supporting **launch cost and reusability analysis**.
- Collected and engineered data using **API integration** and **web scraping**, followed by extensive **data cleaning, feature engineering, and SQL-based analysis**.
- Performed **exploratory data analysis (EDA)** and developed interactive **geospatial and analytical dashboards** using **Folium** and **Plotly**.
- Trained and evaluated **supervised learning models** (Logistic Regression, SVM, Decision Trees) with **cross-validation and hyperparameter tuning**, achieving **87% accuracy**.
- Delivered actionable insights through clear **data storytelling and statistical interpretation** for informed decision-making.

Telecom Customer Classification (ML) | *Python, Pandas, Scikit-learn, Matplotlib, Seaborn* Project Link

- Built a **multi-class classification system** to segment telecommunication customers into four distinct groups using demographic and usage data for **targeted marketing strategies**.
- Conducted detailed **exploratory data analysis (EDA)** to identify key behavioral patterns and feature distributions influencing customer segmentation.
- Performed comprehensive **data preprocessing**, including **one-hot encoding**, **feature scaling**, and data normalization to improve model stability and performance.
- Implemented and optimized a **K-Nearest Neighbors (KNN)** model, tuning the **K hyperparameter** through iterative evaluation to improve classification performance by **41%**.
- Validated model effectiveness using accuracy-based **model evaluation techniques**, demonstrating strong understanding of **algorithm selection and optimization**.

Certifications

IBM Data Science Professional Certificate | *Professional Credential* 2025

- **Python** and **SQL** for data manipulation, using **Pandas** and **NumPy** to clean and wrangle complex datasets with **API** and **Web Scraping** techniques.
- Developed **Machine Learning** models including **Regression, Classification, and Clustering** using **Scikit-learn** and **SciPy**, with a focus on model evaluation and hyperparameter tuning.
- Leveraged **Generative AI (GenAI)** and **Prompt Engineering** within the data science workflow to automate data generation, feature engineering, and insight discovery.
- Built interactive visualizations and geospatial maps using **Matplotlib, Seaborn, Plotly,** and **Folium** to communicate **Exploratory Data Analysis (EDA)** findings.
- Applied **Data Science Methodology** to complete a **Predictive Analytics Capstone** project on real-world datasets.

Leadership & Volunteering

- Volunteer at SAHAAY Foundation: Conducted math lessons for 6th-grade students for 30+ hours
- Event Co-Coordinator, Rangmanch Ki Udaan: Managed auditions and practices for annual cultural event