Suhani J. Bhatt

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Portfolio: https://suhani0810.github.io/

EDUCATION

SAL Engineering and Technical University — Ahmedabad, Gujarat
Bachelor of Engineering — May 2025
- Major in Computer Engineering; Minors in Data Science
- Cumulative GPA: 8.45/10
- Relevant Coursework: Data Analysis, Software Engineering, Operating Systems, Algorithms, Artificial Intelligence

WORK EXPERIENCE

Bhaskaracharya National Institute for Space and Geo-informatics (BISAG-N) — Gandhinagar, Gujarat
Data Science Intern — Jan 2025 – April 2025
- **Engineered** end-to-end object detection workflow (YOLOv8, OpenCV) to detect infrastructure in satellite imagery.
- **Spearheaded** pre-processing techniques (tiling, geo-referencing), boosting road detection **mAP by 24%** (50.9% to 74.5%).
- **Orchestrated Roboflow/Labelbox** pipelines, utilizing augmentation (noise, rotation) to resolve class imbalances.
- **Developed** Python automation scripts for sub-region extraction and output merging, streamlining Data Quality Management.

Qspiders — Ahmedabad, Gujarat
Intern — May 2024 – Jun 2024
- **Architected** responsive web applications using **HTML, CSS, and JavaScript** with cross-browser compatibility.
- **Implemented** robust **OOP** principles to modularize backend code and enhance system scalability.
- **Executed** complex **SQL** queries for efficient database management and optimized data retrieval.
- **Applied** SDLC methodologies to track milestones and ensure timely feature delivery.

PROJECTS

Predictive Modeling of Customer Booking Behavior | British Airways (Forage Job Simulation) — September 2025
- **Built** classifier on **50,000-row dataset** to forecast booking behavior, achieving **89% accuracy**.
- **Implemented** SMOTE for class balancing and **GridSearchCV** to identify top 10 features driving purchases.

Customer Churn Predictive Analytics Model | LLOYDS Financial Services (Forage Job Simulation)
September 2025
- **Consolidated** data from 3 disparate sources (Demographics, Transactions) to construct a 360-degree customer view.
- **Engineered** features and applied SMOTEENN to resolve imbalance, significantly improving recall for at-risk customers.
- **Formulated** strategic data acquisition recommendations based on rigorous model evaluation.

Telemetry Data Analysis: Identifying Manufactory Failure Hotspots | Deloitte Australia (Forage Job Simulation)
September 2025
- **Processed 170,000+ JSON records** to analyze global machine failure rates (Japan, Germany, China).
- **Developed** an interactive Tableau dashboard pinpointing Tokyo as the highest-risk facility, **isolating top 3 failure types.**

TECHNICAL SKILLS

- **Programming & Libraries:** Python (Pandas, NumPy), Scikit-learn, SQL
- **Machine Learning:** Predictive Modeling (Classification), Imbalanced Data Handling, Feature Engineering, Hyperparameter Tuning (GridSearchCV).
- **Data Analysis & Visualization:** Tableau, Power BI, JSON Data Processing, Matplotlib, Seaborn.
- **Database Management:** MySQL, MongoDB

ADDITIONAL

Languages: Fluent in English, Hindi and Gujarati
Certifications: IBM Data Analyst & Data Science Coursework (Coursera) | Issued Feb 2024 – Aug 2024