

# Vedant Vijay Shinde

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## EDUCATION

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### Master of Science in Information Systems

Expected Completion: 05/2026

Stevens Institute of Technology | Hoboken, NJ, USA | GPA: 4.0 | **Master's Scholarship Award**

**Coursework:** Data Analytics and Machine Learning, Marketing Analytics, Supply Chain Analytics

### Bachelor of Engineering in Information Technology

Completed: 05/2024

University of Mumbai | Mumbai, MH, India

## TECHNICAL SKILLS

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**Programming:** Python (Pandas, NumPy, scikit-learn), SQL

**Machine Learning:** Regression and Classification Models (LightGBM and XGBoost), Customer Segmentation (Clustering)

**Data Visualization and Reporting:** Excel (PivotTables, XLOOKUP, Advanced Formulas, Charts), Tableau, Power BI, Plotly

**Cloud and Developer Tools:** AWS EC2, GitHub, Jupyter Notebook, MySQL, PostgreSQL, Node.js

## PROFESSIONAL EXPERIENCE

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### Stevens Institute of Technology | Hoboken, NJ, USA

**Graduate Research Assistant** | *Data Visualization and Insights*

11/2025–Present

- Design Python-based fairness visuals using drift indicators, demand–supply mismatch maps, and infrastructure-to-usage overlays to reveal neighborhood-level micromobility service inequities
- Standardize decile ranks, peak and off-peak heatmaps, and fairness time series within a multi-city visualization framework that enables consistent equity analysis across 12 cities and multi-day datasets
- Automate a reproducible Python workflow that generates 15+ usage, availability, idle-time, and accessibility visuals per city to support scalable fairness diagnostics

### Stevens Institute of Technology | Hoboken, NJ, USA

**Summer Research Assistant** | *Big Data Analytics and Insights*

05/2025–07/2025

- Built an automated data pipeline with Python and AWS EC2 to accurately process millions of real-time data points from 8 micromobility systems that enabled large-scale transportation fairness analysis
- Applied statistical modeling and geospatial analysis in Python to engineer a quantitative framework that assessed vehicle distribution and identified systemic service inequities across diverse neighborhoods
- Conducted a multivariate Power BI analysis combining geospatial, temporal, and supply metrics, identifying a 30% lower vehicle availability in underserved zones and uncovering peak-time shortages and systemic service gaps

### Terna Engineering College | Navi Mumbai, MH, India

**Undergraduate Assistant** | *Inventory & Demand Forecasting*

09/2023–04/2024

- Enhanced supply chain reliability by developing an SQL-based auditing system to monitor 500+ vendor purchase orders, flagging data discrepancies and shipment delays to improve supplier accountability
- Performed Python text analysis on 200+ unstructured notes to extract operational insights and streamline internal workflows
- Executed a market basket analysis on 5000+ transactions to identify purchasing patterns, uncovering 18 significant product associations that drove a strategic redesign of in-store product placement and promotional bundling

## PROJECTS

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### Industry Capstone Project | *AI-driven Personalization Strategy for the Webster*

08/2025–Present

- Engineered a custom GPT-style fashion recommender by integrating a 25,000-product CSV dataset with LLM-driven outfit generation, enabling context-aware suggestions based on occasion, budget, and user style preferences
- Built an influencer-style weighting system by analyzing the aesthetic patterns of 15–20 real influencers, tagging products with color/style vectors, which increased personalized outfit relevance by prioritizing stylistically aligned items

### Grocery – AI Grocery Assistant | *Retail Analytics & LLM-Based Recommendation Engine*

09/2025–11/2025

- Developed an AI grocery assistant using Node.js, React UMD, and Ollama, delivering SKU-aware recipe recommendations, nutrition insights, and cart analytics across 600+ normalized grocery products
- Engineered a retail-grade ETL pipeline for fuzzy ingredient matching, unit normalization, and product enrichment (price, calories, macros) to support accurate meal costing and inventory-aware substitutions

## CERTIFICATIONS

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Microsoft Certified: Power BI Data Analyst Associate (PL - 300) ([Microsoft](#)) | Google Data Analytics Specialization ([Coursera](#))