# Shreyas Darade

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## EDUCATION

**Carnegie Mellon University,** Pittsburgh, PA, United States — August 2024 - December 2025
Master of Information Systems Management - Business Intelligence and Data Analytics **[Dean's List: Fall 24, Spring 25] GPA: 3.94**
Coursework: Machine Learning, ML for Problem Solving, Data Science and Big Data, Data Focused Python, Econometrics

## SKILLS

**Programming:** Python, SQL, Java
**Data Science**: NumPy, Pandas, Scikit-Learn, Statistics, Regression, Classification, PyTorch, A/B Testing, SpaCy, NLP, Topic Modeling, Deep Learning, TF-IDF, Supervised Learning, Unsupervised learning, Clustering, Optimization
**Data Analysis & Visualization:** PowerBI, Tableau, Exploratory Data Analysis, Matplotlib, Seaborn, Plotly, Spark, MapReduce
**Tools & Platforms**: PowerPoint, Git, Figma, Excel, Latex, Jupyter, Google Colab, Hadoop
**Soft Skills**: Stakeholder Management, Problem-Solving, Consulting, Business Intelligence, Product Strategy, UX Design

## EXPERIENCE

**Naptic LLC,** Pittsburgh, PA — June 2025 - August 2025
AI/ML Engineer Intern
Working in a fast-paced startup to solve business problems for clients using interesting, efficient and secure AI agent workflows. Exploring MCP and RAG agents to make low code agents more efficient and safer to sensitive data.

**GEP,** Mumbai, India — September 2022 - August 2024
Senior Analyst

- [**Consulting**] Consulted for a Fortune 100 US client with a $4.5B indirect spend on a procurement transformation project including analytics insights and reporting 25+ metrics/KPIs to 220+ members for measuring the progress of the client program
- [**Analytics | Excel**] Performed exploratory data analysis (EDA) on large scale procurement data to test hypothesis on cost drivers and savings opportunities; collaborated with data scientists and leaders to align models and priorities
- [**Optimization | Power BI**] Spearheaded redesign of 5 key client dashboards after understanding the stakeholder problems. Automated dashboard pipelines in PowerBI and Python, optimized dashboards achieving a 60% reduction in complexity and saving 4+ hours per week. Observed 100% improvement in customer engagement upon deployment
- [**Cross-functional collaboration**] Designed a modular BI workbench on the client analysis platform while collaborating with technology team and facility managers enabling data-driven decisions on spend, savings, contracts and suppliers
- [**Presentation | Visualization**] Created executive level monthly reports summarizing 15+ strategic metrics, highlighting performance trends and actionable opportunities bridging raw data to business insights

## ACADEMIC RESEARCH EXPERIENCE AND PROJECTS

**Personalized Carbon Emission Prediction and Recommendations:**
**[Regression | Python | XGBoost | Pandas | Data Cleaning | Neural Network | KNN-imputation]** Developed a machine learning based personalized carbon emission predictor which gives an estimate of monthly emission based on various key features.

- Set a clear baseline of the analysis using ridge regression and used different correlation analysis and imputation techniques to handle missing values and improve the validation data accuracy. Used cross-validation to choose the best hyperparameters.
- Trained 5+ models using various regression, Ensemble methods and achieved 98% accuracy on test data using XGBoost
- Delivered personalized insights on what better choices can the user make to decrease emissions using key contributing features

**Airbnb New York City Market Analysis – Revenue Optimization:**
**[Exploratory Data Analysis | Data Cleaning | Visualization| Pandas]** Conducted EDA on 30K+ Airbnb listings in combination with multiple data sources like listings reviews and NY neighborhoods to understand market trend and pricing based on some key features in the dataset to understand opportunities to increase revenue and create business impact.

- Utilized different visualization techniques like Folium, plotnine and matplotlib to have interactive visualization on NYC map
- Cleaned data and handled missing values using pandas to focus on features like room type, boroughs, host, prices, etc.
- Summarized actionable recommendations for stakeholders for key trends like decrease in reviews by 22% in 2024

**Smart Traffic Management System:**
**[Object Detection | Python | Problem-Solving]** Collaborated in a team of three to analyze, design and to solve a real-time problem Smart Traffic Management System for prioritizing emergency vehicles and efficiently controlling smooth traffic flow

- Trained object detection model, designed and integrated a traffic scheduling algorithm with 95%+ accuracy detection
- Efficiently managed the traffic congestion by considering the vehicle waiting time and count in the lanes with YOLO

***Research Paper***: Dynamic Traffic Scheduling Using Emergency Vehicle Detection, INCOFT 2022, IEEE [***link***]