Ved Aralkar

Jersey City, NJ 07304 | www.linkedin.com/in/vedaralkar/ | ved.aralkar@pace.edu | (929) 639-8138

EDUCATION

Pace University, New York, NY — December 2024
Master of Science in Data Science | **Honors:** Graduate Merit Scholarship — **GPA: 3.63**

Mumbai University, Mumbai, India — July 2022
Post Graduate Diploma | **Concentration**: Data Science and Business Analytics — **GPA: 3.94**

MIT - World Peace University, Pune, India — June 2021
Bachelor of Science in Computer Science — **GPA: 3.49**

SKILLS AND CERTIFICATIONS

Programming Languages	Python, R, Scala, Java (basic), C++ (basic)
Libraries	Python - Numpy, Pandas, Matplotlib, Scikit-learn, Seaborn, Plotly, API Requests
Statistical and Probability	Time Series Analysis, Bayesian Statistics, Machine Learning
Database Management	MySQL, PostgreSQL, Neo4j, ADEPT, Salesforce, Hadoop
Data Visualization	Microsoft Power BI, Tableau, Google Looker Studio, Microsoft Office, Adobe Acrobat
Key Competencies	Customer Engagement and Retention, Performance Reporting, Trend Analysis
Certifications	IBM Data Science Specialization, Social Network Analysis/Data Science Methodology

PROFESSIONAL EXPERIENCE

MTA New York City Transit, Customer Relationship Management Intern — June 2024 – Present

- Identified and corrected over 150+ data discrepancies each month in CRM system, ensuring 90% data accuracy across customer records
- Support the implementation and optimization of CRM tools and processes, assisting in migrating over 50000 customer records from ADEPT to Cassie (Salesforce)streamlining data management and improving processing efficiency
- Review and resolve 200+ customer complaints monthly, improving service quality and supporting customer retention by addressing issues impacting continued engagement
- Design and maintain Excel dashboards for daily rider subscription trends, enabling performance reporting and actionable insights to optimize customer engagement strategies

The Gamification Company, Data Analyst Intern — September 2021 – March 2022

- Analyzed client data using SQL for key trends, provided actionable insights to business for strategic decision-making
- Developed dashboards using Google Looker Studio to show company KPIs, reducing manual reporting time by 9 hours
- Collaborated with teams to build custom reports using advanced Excel, cleaned data for accuracy in reporting
- Enhanced reporting accuracy through data quality checks, reducing redundant data points and errors by 15%

ACADEMIC PROJECTS

Optimizing NYC Subway Operations Using Machine Learning Github — December 2024

- Collected and prepared large datasets of MTA subway turnstile and weather data from 2022 for predictive modeling and trend analysis
- Employed Random Forest and Gradient Boosting, achieving robust results through hyperparameter tuning
- Identified significant correlations between weather conditions and ridership offering insights for transit planning

CART (Classification and Regression Tree) Github — June 2024

- Developed classification & regression models to determine factors influencing housing prices in California, pre-processed and cleaned dataset using Jupyter Notebook
- Performed PCA to yield statistical metrics and visualized data using scatter plots and histograms to identify key features
- Conducted exploratory data analysis (EDA) using Python to recognize handwritten digits, achieving 97% accuracy with Random Forest model

NYC Crime Data Analysis Github — June 2023

- Conducted data analysis of NYC crimes using SQL, machine learning and applied version control using Git
- Uncovered demographic insights, crime trends, and assessed transportation accessibility, to understand NYC dynamics
- Presented findings through data visualizations and predictive modeling, demonstrating strong analytical skills