Damini Vichare

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EDUCATION

Master of Science in Data Analytics, San Jose State University	Jan 2023 - Jan 2025
Bachelor of Engineering, Information Technology, University of Mumbai	Aug 2014 - Jun 2018

SKILLS

Programming Languages: Python (NumPy, Pandas, Matplotlib, scikit-learn, TensorFlow), SQL, R

Data Analytical Tools: Google Analytics 360, Adobe Analytics, Microsoft Excel, Kantar Market Share, Google Tag Manager, Tableau, Power BI, LookerStudio, Hadoop, Spark, Amazon Redshift, Google BigQuery

Database/Cloud/Other: Linux, macOS, Windows, MySQL, Oracle, MS Access, AWS, Google Cloud, PIM, DAM

WORK EXPERIENCE

Teaching Assistant, Department of Applied Data Science, SJSU — Jan 2024 - Present
- Collaborate with professor to facilitate lab sessions, discussions, and workshops in Big Data Technology course. Provide guidance to students emphasizing practical applications of Big Data technology in fields like Machine Learning, Artificial Intelligence, Data Science.

Data Science Intern, Samsara — May 2024 - Aug 2024
- Conducted extensive data analysis using Python, SQL, Pyspark applying statistical methods and machine learning algorithms to uncover insights from large datasets.
- Developed and deployed predictive models using scikit-learn to optimize operational efficiency, resulting in 8% improvement in warranty costs and improvment in product reliability.
- Created interactive dashboards using Databricks platform to communicate complex data insights to non-technical stakeholders

Data Scientist, Accenture — Aug 2020 - Jan 2023
- Created a data pipeline for handling and processing big data using Apache Spark and Apache Kafka, and optimized SQL queries and ETL processes, reducing data processing time by 30%.
- Developed automated dashboards in Tableau and utilized Python, MySQL, GCP Big Query, Google Analytics, Adobe Analytics, and Looker Studio to analyze e-commerce KPIs and create trading reports, enhancing the visibility of key business metrics and contributing to a 15% growth in customer retention rates.
- Led a project to implement a predictive analytics model that forecasted sales trends with 82% accuracy.

Data Analyst, Mirum Digital — Dec 2019 - Jul 2020
- Conducted ETL, data preprocessing, and analysis (hypothesis testing, statistical inference, predictive/prescriptive analysis) to optimize pricing strategies and derive data-driven insights using Python and MySQL and crafted Tableau dashboards for senior management.

Web Developer, Accenture — Oct 2018 - Dec 2019
- Developed, Configured and customized e-commerce websites, Automated regression testing to reduce manual testing tasks by 40% using React and php , and used Google SEO updates to improve search ranking.

PROJECTS

Marketing Analysis for Airbnb
- Used Python, SQL, and Excel to analyze guest search behavior and host acceptance patterns, identifying demand-supply gaps in the Dublin market. Visualized insights with Tableau and Matplotlib, highlighting opportunities to increase bookings by aligning host offerings with guest preferences.

Predictive Modeling of Driver Signups for Uber
- Developed a predictive model using Python and machine learning algorithms to identify which driver signups are most likely to complete their first trip, using a cohort dataset from January 2016. Conducted data cleaning, exploratory analysis, and feature engineering to understand key factors influencing driver activation, such as demographics, vehicle characteristics, and sign-up details. Evaluated model performance with accuracy, precision, recall, and AUC metrics, selecting the optimal model based on predictive power and interpretability.

Customer Purchase Behavior Analysis for Walmart Inc
- Analyzed customer purchase behavior using Python and SQL to explore spending patterns across different genders and other factors. Investigated differences in spending habits between male and female customers during Black Friday, identifying key trends and insights.

COURSEWORK

Statistics & Probability, Databases, Data Visualization, Big Data, Data Mining, Machine Learning