NIRAV BARIYA

Location: Toronto, Ontario

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SUMMARY

Data-driven professional with a master's in mathematics, highly proficient in SQL and Python for transforming and analyzing complex datasets to produce rapid, actionable insights. Ability to transform business objectives into strategic data projects, identifying trends and patterns to optimize performance, and designing custom reports. Strong communicator with a proven ability to collaborate across teams and effectively present findings to both technical and non-technical audiences.

SKILLS

Highly proficient in writing complex SQL queries, experienced in Python for manipulating and analyzing large datasets, strong understanding of statistical principles, excellent problem-solving skills, outstanding written and verbal communication abilities, effective in coordinating across teams, capable of translating business objectives into actionable projects.

PROFESSINAL SKILLS

Data Analytics

- Expertly handles data cleaning and preprocessing, ensuring the accuracy and reliability of datasets, which drives meaningful insights and informed decision-making.
- Utilizes a broad range of statistical and predictive analysis techniques to uncover hidden patterns, validate assumptions, and guide strategic initiatives.
- Skillfully generates actionable insights from thorough data analysis, significantly enhancing customer segmentation and optimizing business strategies.

Technical Skills: Python, SQL, and Tableau

- Develops and fine-tunes machine learning models using advanced Python libraries, consistently achieving high levels of accuracy and predictive power in complex scenarios.
- Applies sophisticated data manipulation and feature engineering techniques, leveraging tools like Pandas and NumPy to refine datasets and enhance analytical outcomes.
- Extracts, processes, and visualizes data through SQL and Tableau, creating compelling visual narratives that effectively support data-driven business decisions.

Communication Skills

- Crafts clear and impactful data stories through intuitive dashboards and detailed reports, effectively conveying complex insights to diverse audiences.
- Balances stakeholder expectations with a collaborative approach, ensuring alignment and satisfaction across all levels of an organization.
- Facilitates successful cross-departmental projects by fostering communication and cooperation, leading to cohesive and well-executed outcomes.

WORK EXPERIENCE

Instacart Customer Profile Analysis: *Python, Data Wrangling, Population Flows*   April 2024

- Conducted exploratory data analysis to uncover sales pattern, created new variables to develop customer profiles leading to better customer segmentation, presented actionable insights.

Airbnb Toronto Analysis: *Python, Scikit Learn, folium, K-Means Clustering*   May 2024

- Performed thorough analysis of Airbnb data to identify successful listings, performed regression to identify correlations, created clusters to determine factors behind the success and provided recommendations for the success through Tableau storyboard.

Influenza Staffing Plan: *Tableau Dashboards, Excel, Story Telling*   March 2024

- Conducted in-depth analysis to provide staffing plan for Influenza season, integrated datasets, created research hypothesis, performed hypothesis testing, created spatial and temporal visualization to communicate the results and recommendations effectively.

Online Streaming Platform Launch: *SQL, Tableau, Excel*   April 2024

- Executed extensive data analysis for a video rental company, resolved business questions by querying a relational database, and offered actionable insights to the sales and marketing team using Tableau visualizations.

RELEVANT WORK EXPERIENCE

Anand Vidya Vihar School   June 2020-Sept 2023

High School Teacher of Mathematics

- Trained 150+ students focusing on critical thinking and problem-solving skills through high school mathematics teaching 5 different courses that resulted in a 95-100% graduation rate.
- Led weekly team meetings, collaborating with 10+ colleagues to design and plan activities, improve teaching strategies throughout the academic year which resulted into timely and organized implementation of curriculum.
- Conducted sessions to help the students with weaker foundation by taking quizzes, training them in problem solving skills that helped them perform 7-15% better in their assessments.
- Guided meetings of 10-15 instructors every week to Maintained and analyzed student records, entering data into state board systems with 100% accuracy and ensuring compliance with educational standards.

Parul University   June 2017-June 2018

Assistant Professor (Mathematics)

- Taught and developed University mathematics and MATLAB programming courses to 120+ undergraduate and graduate students annually, enhancing their problem-solving and analytical thinking skills.
- Designed and evaluated over 10 assignments per student and 4 written exams, ensuring alignment with learning objectives and effective assessment of student understanding.
- Provided detailed feedback and mentorship to students, leading to a 20% improvement in class performance.

EDUCATION

Data Analytics Certificate   Jan 2024 - July 2024

CareerFoundry

Google's Data Analytics Certificate   Oct 2023 – Dec 2023

Google, Coursera

Master of Science in Mathematics   June 2014 - April 2016

The M.S. University of Baroda