

# NIRAV BARIYA

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**Portfolio:** <https://b-nirav.github.io/portfolio/>

## SUMMARY

A driven data analyst with a strong analytical mindset shaped by a Master of Science degree in mathematics and experience in explaining complex processes to graduates and trainees. Adept at critical thinking in dynamic and ambiguous environments. Skilled in data analytics and building machine learning models to drive decision-making.

## SKILLS

Python (NumPy, Pandas, Matplotlib, Seaborn, Scikit-learn, TensorFlow, Keras), SQL, Tableau, Data Visualization, Machine Learning Models (Linear Regression, KNN, Decision Trees, Random Forests, CNN, STLM), Statistical Learning, Project Management.

## PROJECTS

**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.

**European Weather Prediction:** *Python, Sci-kit Learn, Keras, TensorFlow* July 2024  
Developed and optimized machine learning models, including KNN, Random Forests, and Convolutional Neural Networks (CNN), to predict extreme weather events in Europe where CNN had the highest accuracy of 95.96%.

## WORK EXPERIENCE

**Anand Vidya Vihar School** June 2020-Sept 2023  
High School Teacher of Mathematics

- Trained students in groups of 30+ explaining complex concepts of high school mathematics teaching 5 different courses that resulted in a 95-100% graduation rate.
- Collaborated with different departments to build framework of projects and events, brainstorming ideas, and resolved conflicts using interpersonal skills.
- Lead meetings of 10-15 instructors every week to design and plan activities throughout the academic year leading to successful implementation of curriculum.

**Parul University** June 2017-June 2018  
Assistant Professor (Mathematics)

- Mentored undergraduate and graduate students from various departments computer engineering, mechanical engineering in the subjects such as differential equations, statistics and numerical methods improving students' understanding of the subject.
- Reviewed and evaluated the students' activities by providing them valuable feedback that improved their understanding and performance in the tests by 10%.

EDUCATION

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Data Analytics Certificate CareerFoundry	Jan 2024 - July 2024
Google’s Data Analytics Certificate Google, Coursera	Oct 2023 – Dec 2023
The Maharaja Sayajirao University of Baroda Master of Science in Mathematics	June 2014 - April 2016