

Sunny Panchal

Data Scientist/ Analyst

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🌐 <https://github.com/28101991SUNNY> 📍 Mississauga, ON

Profile

Data Scientist with a strong Technical background with working experience in Machine learning, Applied statistics, Probability Mathematics, Data Visualization, and Expert-level Data Querying skills.

Skills

Python-

Numpy, Pandas, sk-learn, TensorFlow

SQL

MySQL, GCP, Big-Query, DB2, Oracle

Probability Mathematics and Applied Statistics

Probability Distributions

A/B test, Confidence Interval

Hypothesis Testing: t-Test, ANOVA, Chi-Square Test

Machine Learning

Linear Regression, Logistic Regression

Decision Tree and RandomForest, GBDT, XGBoost,

k-NN, K-Means Clustering

Anomaly and Outlier Detection

TimeSeries Analysis (ARIMA)

Artificial Neural Network

Power BI and Tableau

Data Visualization, DAX, Matplotlib and Seaborn

Education

12/2021 – 02/2023 **Data Science and Machine learning (With Deep Learning and AI specialization), Scaler**

06/2009 – 06/2013 **Bachelor of Engineering in Mechatronics, Gujarat Technological University, India. (GCET)**

Professional Experience

12/2021 – present
Mississauga ON

Data Scientist, Personal Work in Data Science and Machine Learning

- Worked with large datasets, performed Statistical Analysis, Hypothesis testing, Missing Value Imputation, Feature Engineering, and Encoding.
- Linear Regression, Logistic Regression, Decision Trees, and Ensemble ML models like Random Forest, GBDT, and XGBoost.
- Unsupervised Learning: k-Means Clustering, DBSCAN, Outliers - Anomaly Detection, and Time-Series Analysis.

11/2022 – 12/2022
Mississauga ON,
Canada

Retail Sales Associate, Best Buy Canada

- Maintaining a high level of customer satisfaction by promptly addressing inquiries, and concerns and providing solutions to customers
- Achieving sales targets through up-selling and cross-selling of electronic products to customers.

01/2020 – 05/2022
Ahmedabad, India

Quality Analyst (Quantity Control Engineer), Sharp Technocast Industries, Ahmedabad India

- Monitor, test & report on the quality of products, Inspect raw materials, components, and final products.
- Data Acquisition, data review, and statistical analysis using BI intelligence tools like Excel and Power BI.
- Prepared data reports and business case slides and periodic review reports for internal and external stakeholder review.

Projects

E-commerce Business Intelligence Analytics with MySQL

- Website Performance: Analysed Website Page and Sessions, Conversion Rates across Pages.
- Done A/B testing on which WebPage is getting more traffic and Products that have higher Sessions to Orders Conversion Rate.
- Worked on Business Concepts like Bid Optimization, Time Series Analysis - Business Trends and Seasonality, Landing Page Performance, and Testing and Product Analysis.
- Analyzed and Test Conversion Funnels, Identified the most common path customers take before purchasing products.
- Channel Portfolio Optimization: Bidding efficiency and using data to maximize the effectiveness of the marketing budget.

Logistic Regression (Classification Problem)

- Developed classification models that accurately predict the likelihood of loan applicants becoming eligible for an extension or defaulting, with a precision rate of 98% and an f-beta score of 80%.
- Through thorough analysis, identified crucial parameters that play a role in determining the risk of loan default.
- Used Descriptive Statistic, Conditional Probability, ML Models like – Logistic Regression, Decision Tree, Random Forest, GBDT, XGBoost for Prediction.

Ecommerce, (Information of 100k orders at E-commerce Company like Target) (SQL)

- Extracted data from Big Query and integrated it with Jupyter Notebook using the Big-Query API. I employed SQL (Big Query) to retrieve the necessary data for business analysis and utilized Python for creating visualizations and conducting statistical analysis on the queried data.
- Performed a time-series analysis of revenue and orders, and calculated confidence intervals of delivery time per state.

Logistics Company like Delhivery (EDA)

- Produced insights into the busiest corridors, the cities that generate the most orders, the cities that experience the highest traffic, and the busiest intersections for a logistics and supply chain company such as Delhivery India. I carried out data reprocessing, merging, feature extraction, hypothesis testing, and calculating confidence intervals.

Portfolio Link (Github)

Business Case Studies

worked on many more projects In-depth EDA in Employee Attrition, Telecom Customer Churn Prediction, and Drivers Churn Prediction for ride-sharing companies like UBER/ OLA, Delivery Time estimation- Regression, Recommendation System, and Time-Series Forecasting using ARIMA models.

Courses

Database and SQL for Data Science, *IBM Skills Network* 

Advanced SQL: MySQL Data Analysis & Business Intelligence, *Maven Analytics* 

Python for Data Science, AI & Development, *IBM Skill Network* 

Microsoft Power BI desktop for Business Intelligence, *Maven Analytics* 

Certificates

IBM Data Engineering Professional Certificate
Presently On

Google Data Analytics Professional Certification 
Google Professional Certification

Interests

- Artificial Intelligence
- Hiking
- Classical Music