Harsh Singh

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Summary

Data Analyst with 2+ years of experience building dashboards, automating reports, and developing ML models. Skilled in Python, SQL, BigQuery, and Looker Studio. Proven track record of improving data accessibility and business decision-making.

Technical Skills

Languages and Databases: Python, SQL, JavaScript,HTML, CSS and Google BigQuery
Data Visualization and other tools: Looker Studio, Power BI, Data Reporting, Dashboards
Machine Learning: Supervised Learning, Unsupervised Learning
Time Series Analysis: ARIMA, SARIMA, SARIMAX, PROPHET
Libraries & Frameworks: Pandas, Numpy, Matplotlib, SkLearn, Seaborn, Ktinter and OpenCV

Experience

Data Analyst   **Feb 2024 – Present**
Silverline education trust
Technologies: Google Cloud Platform (GCP), Looker Studio, SQL, BigQuery, Google Apps Script, Google Sheets

- Built and automated data dashboards in **Looker Studio**, reducing report generation time by **80%** and improving decision-making speed for cross-functional teams.
- Developed and optimized ETL pipelines in **BigQuery**, handling over **200K** records monthly, which improved data processing efficiency by **30%**.
- Conducted advanced data analysis and perform **hypothesis testing**, providing insights that improved stakeholder decision-making and resulted in **20%** improvement in operational efficiency.
- Optimized an **SQL-based workflow** to integrate Google Classroom data into **BigQuery**, ensuring real-time data access for reporting purposes.
- Created a simple **Web application** using Google appscript to seamlessly receive data and transforming this data in **BigQuery** as per requirement.
- Build a **time series model** to predict the next day's student strength for accurate **resource allocation**, using **SARIMAX and Prophet** with external **weather API data**.

Executive   **Jun 2022 – Aug 2023**
EXL Services
Technologies: Excel, Salesforce, Google Sheets.

- Analyzed large volumes of claims and policy data for **US insurance** clients using Excel and Salesforce, identifying inconsistencies and streamlining the claim settlement process.
- Created and maintained weekly **status reports** to ensure timely claim settlements and reduce processing delays.
- Standardized **reporting** templates to support operational insights and enable data-driven decision-making by senior management.

Education

Hindustan College of Science and Technology, Mathura   **2015 – 2019**
B.Tech, Dr. A.P.J. Abdul Kalam Technical University

Certifications and Achievements

- GATE Qualified (2020, 2021, 2022)
- 5-star SQL rating on HackerRank
- 4-star Python rating on HackerRank

Projects

Face Recognition System (Python, Face Recognition Library, OpenCV)   [GitHub]

- Developed a real-time face recognition system for automated **alarm triggering** based on business needs.
- Developed GUI using **Ktinter** and created a windows application using **Pyinstaller**.

Exploratory Data Analysis – Hotel Booking Dataset   [GitHub]

- Conducted EDA using Python (Pandas, NumPy, Matplotlib, Seaborn) to analyze booking trends.
- Cleaned and transformed data, uncovering key insights to optimize hotel revenue.

Bike Demand Prediction – Regression Model   [GitHub]

    – *Technologies: Linear Regression, Lasso Regression, Ridge Regression, Elastic Net Regression.*
    – Evaluated model performance using **RMSE** and **R-squared metrics**.
    – Achieved **80%** adjusted R^2 score after hyperparameter tuning and cross-validation.

Cardiovascular Risk Prediction – Classification Model   [GitHub]
    – *Technologies: Logistic Regression, Decision Tree, Random Forest, Boosting, etc*
    – Achieved **89%** accuracy in predicting cardiovascular disease risk factors.
    – Achieved **89%** precision and **90%** recall in predicting cardiovascular disease risk factors.

BI Dashboard – Student Attendance Analysis   [Looker Studio]
    – Developed an **interactive attendance tracking dashboard**, reducing manual tracking by 70%.

Real Time Automated Report Card System (BigQuery, Looker Studio)
    – Built a centralized reporting system for **2500+** students performance data using **Looker Studio** and **BigQuery**, enabling real-time analysis for teachers
    – Automated **report generation**, reducing manual workload by **95%.**