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# Harsh Singh

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## Summary

Results-driven Data Analyst with 2+ years of experience in data analytics, machine learning, and business intelligence. Proficient in Python, SQL, and visualization tools, with a strong ability to automate processes and develop data-driven solutions. Proven success in optimizing workflows, reducing manual effort by 85%, and delivering actionable insights. Passionate about leveraging data for business impact and operational efficiency.

## Technical Skills

**Programming Languages:** Python (Pandas, NumPy, Scikit-Learn), SQL, JavaScript, Google Apps Script

**Databases and Data Storage:** Google BigQuery, PostgreSQL, Data Warehousing

**Data Visualization:** Looker Studio, Power BI, Data Reporting, Dashboards

**Data Engineering:** ETL (Extract, Transform, Load), Data Wrangling, Data Pipeline Development

**Business and Analytical Tools:** Business Analysis, Advanced Excel (Pivot Tables, VLOOKUP, Macros), Google Sheets

**Cloud and DevOps:** Google Cloud Platform (GCP)

## Experience

### Silverline Education Trust

Sep 2023 – Present

*Junior Data Analyst*

**Technologies:** Google Cloud Platform (GCP), Looker Studio, BigQuery, Google Apps Script, Google Sheets, SQL

- 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, handling over 200K records monthly, which improved data processing efficiency by 30%.
- Automated repetitive tasks with Google Apps Script, saving 100+ hours of manual work per month.
- Designed a custom web application for data collection, reducing data entry errors by 90%.
- Conducted advanced data analysis, 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.

### EXL Services

Jun 2022 – Aug 2023

*Executive*

- Worked with US clients in the insurance domain, analyzing claims and policy data.
- Gained expertise in Advanced Excel (VLOOKUP, INDEX-MATCH, Pivot Tables, Data Validation).
- Streamlined reporting processes, reducing manual effort by 50%.

## 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

### 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<sup>2</sup> score after hyperparameter tuning and cross-validation.

### Cardiovascular Risk Prediction – Classification Model

[GitHub]

- *Technologies: Logistic Regression, Decision Tree, Random Forest.*
- Achieved 85% accuracy in predicting cardiovascular disease risk factors.
- Achieved 70% precision and 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%.

### Languages

- English (Fluent)
- Hindi (Fluent)