

# RAHUL RAI

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## PROFILE

Aspiring data analyst with a strong foundation in data science, statistical analysis, and visualization. Skilled in Python, SQL, Tableau, and Excel, with hands-on experience in building dashboards, generating business insights, and implementing predictive models. Adept at transforming raw data into actionable intelligence to drive strategic decisions.

## TECHNICAL SKILLS

- Languages & Tools: Python, R, SQL, Excel (PivotTables, VLOOKUP), VBA
- Visualization: Tableau, Matplotlib, Seaborn
- Data Handling: Pandas, NumPy, Excel
- Machine Learning: Regression, Classification, Clustering, Time Series Forecasting
- Other: Hypothesis Testing, EDA, Feature Engineering

## PROJECT HIGHLIGHTS

- **E-commerce Analytics** – Segmented customers and built a recommendation system using clustering techniques. Presented insights via interactive Tableau dashboards.
- **Credit Card Fraud Detection** – Used supervised learning models to classify fraudulent transactions, improving detection accuracy with feature selection and model tuning.
- **Electricity Demand Forecasting** – Applied time series forecasting (ARIMA, Prophet) to predict energy demand patterns for utility optimization.
- **Consumer Complaint Analysis (Excel)** – Used advanced Excel functions and Pivot Tables to categorize complaints and identify trends by geography and product.
- **Retail Analysis (SQL & Python)** – Performed sales trend analysis and market basket analysis using SQL joins, aggregations, and association rule mining in Python.
- **Insurance Claims Prediction** – Developed ML models to estimate claim amounts, aiding in better risk assessment and cost planning.

## PROFESSIONAL EXPERIENCE

### HSIL Ltd., Bahadurgarh — Maintenance Engineer

Plant Engineering Department | Aug 2013 – Sep 2016

- Conducted root cause analysis of mechanical breakdowns, reducing downtime by 15%.
- Led cross-functional initiatives to improve equipment reliability.
- Gained experience in operational data interpretation and reporting.

## **EDUCATION**

- B.Tech in Mechanical Engineering – GLA Institute of Technology, Mathura (2009 – 2013)
- Data Science 360 Program – AnalytixLabs, Noida (2022 – 2023)
- UPSC Preparation – Full-time study (2016 – 2020)

## **ADDITIONAL STRENGTHS**

- Strong analytical and problem-solving abilities
- Effective communicator with collaborative mindset
- Passionate about continuous learning and applying data science to real-world problems