

# Rahul Arya

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New Delhi, India

## SUMMARY

Analytical and detail-oriented professional with over 4 years of experience in healthcare data operations. Skilled in Python, SQL, Excel and Power BI with expertise in statistical modeling, optimization, machine learning, data analytics and storytelling.

## EDUCATION

### Hindu College, University of Delhi

Master of Operational Research (MOR); CGPA: 7

Relevant Coursework: Optimization Techniques, Statistical Modeling, Data Analytics

New Delhi, India

June 2023 – May 2025

### Indira Gandhi National Open University (IGNOU)

Bachelor of Computer Application (BCA); CGPA: 7.2

New Delhi, India

June 2020 – May 2023

## SKILLS

- **Languages/Libraries:** Python (Pandas, NumPy, Seaborn, Scikit-Learn, Matplotlib), SQL, VBA
- **Tools/Software:** Excel Advanced, Power BI, Tableau, MS-Office, MySQL, Jupyter Notebook, VS Code
- **Soft Skills:** Communication, Problem-solving, Critical Thinking, Leadership

## WORK EXPERIENCE

### Research Team Leader | Max Healthcare | Saket, New Delhi

Dec 2020 – Sep 2023

- Performed **data collection, cleaning, and validation** using **Excel** for a large-scale NCD surveillance project.
- Prepared and presented monthly **Excel-based data quality reports** to the central team and funding stakeholders.
- Coordinated across teams to deliver **optimal solutions** to get insights for real-time decision-making.
- Developed standardized **workflows, improved 10% data consistency** and reporting efficiency.
- Streamlined field operations by **troubleshooting technical and logistical challenges, reducing cost by 5%**.

### Research Technician | Max Healthcare | Saket, New Delhi

Sep 2019 – Dec 2020

- Maintained **high-quality data collection** ensured data integrity and governance through rigorous **QC/QA processes**.
- Managed **data transfer** to cloud servers, Oversaw **inventory** and **stock supplies**.
- Provided support on **data collection** tools and ensured 100% compliance with **data governance** practices.

## PROJECTS

### Medical Insurance Price Prediction

[Project Link](#)

- Predicted the Price of Medical Insurance based on attributes like **Age, BMI & Smoker** using **Linear Regression Model**.
- Applied **supervised machine learning**, performed data transformation, conducted exploratory data analysis (**EDA**).
- Plotted **pair-plot** and **heat-map** for correlation of columns for **feature selection** of explanatory variables and found there is a **correlation of 79% between smoker and charges**.
- Achieved an **R-Squared value of 80%**, enabling better premium forecasting strategies.

### Customer Churn Prediction

[Project Link](#)

- Classification of customer churn for Telecom Company based on attributes like **Contract, Tenure, and Monthly Charges** with **Logistic Regression** and **Random Forest**.
- Used **bar plots** and **correlation heatmaps** to identify **-0.35** negative relationship between tenure and churn.
- Addressed **class imbalance** via **RandomOverSampler** improving **minority-class recall** and **achieved 77% prediction accuracy** with **Logistic Regression** improved **accuracy to 83%** using ensemble method: Random Forest.

### Pizza Sales Report

- Developed **interactive Power BI dashboards** with visualizations showcasing **daily/monthly order trends**, Sales by **category/size**, and **top 5 / bottom 5** performing pizzas, validated with **SQL Queries**.
- Identified the top 5 best-selling pizzas, contributing to **\$20M** in sales, and achieved 13.2% month-over-month sales.
- Performed **ETL and EDA** using **DAX Queries** and **KPIs** to provide end-to-end business intelligence solutions.

## CERTIFICATES

Introduction to Data Science – Cisco (Issued : 2025) | [Certificate](#)

Data Analytics Essentials – Cisco (Issued : 2025) | [Certificate](#)

Python Basic – HackerRank (Issued : 2024) | [Certificate](#)