

# Rahul Arya

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New Delhi, India

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## SUMMARY

Highly passionate data enthusiast skilled in Python, SQL, Machine Learning, and Data Visualization with strong analytical mindset and expertise in statistical modelling, optimization, and data analytics.

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## EDUCATION

Hindu College, University of Delhi

Master of Operational Research; CGPA: 7

New Delhi, India

June 2023 – May 2025

Indira Gandhi National Open University (IGNOU)

Bachelor of Computer Application; CGPA: 7.2

New Delhi, India

June 2020 – May 2023

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## SKILLS

- **Technical Skills:** Python, SQL, Scikit-Learn, Pandas, NumPy, Seaborn, Matplotlib
- **Tools:** Power BI, Tableau, MS-Excel, MS-Office, MySQL, Jupyter Notebook, Visual Studio Code
- **Soft Skills:** People management, Leadership, Communication, Research, Problem-Solving & Critical Thinking

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## WORK EXPERIENCE

Research Team Leader | Max Healthcare | Saket, New Delhi

Dec 2020 – Sep 2023

- Managed **data operations** including **cleaning, validation, and reporting** to ensure timely insights for decision-making.
- Built and maintained **strong relationships** with **researchers and participants** to enhance **data accuracy** in studies.
- Scheduled and coordinated with the **central team** to provide the **optimal solutions** for the NCD Surveillance Project.
- 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

- Ensured **high-quality data collection** ensuring data integrity and governance through rigorous **QC/QA processes**.
- Managed **data transfer** to cloud servers, Oversaw **inventory** and **stock supplies**.
- Maintain **Data Quality** at all stations, operate tools and equipment.

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## 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** and **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%**.

Customer Churn Prediction

[Project Link](#)

- Predicted **customer churn** for Telecom Company based on attributes like **Contract, Tenure, and Monthly Charges** with **Logistic Regression** and **Random Forest**.
- Plotted **bar-charts** and **correlation heatmaps** and found **Tenure & Churn** had **Strong Negative Correlation (-0.35)**.
- Addressed **class imbalance** via **RandomOverSampler** improving **minority-class recall** and **achieved 77% accuracy** with **Logistic Regression** improved **accuracy to 83%** with **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.

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## CERTIFICATES

Introduction to Data Science (Cisco Networking Academy) | [Certificate](#)

Data Analytics Essentials (Cisco Networking Academy) | [Certificate](#)

Python Basic (HackerRank) | [Certificate](#)