Rahul Arya

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Portfolio: https://imdeadlock.github.io/portfolio/

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.

EDUCATION

Hindu College, University of Delhi New Delhi, India
Master of Operational Research; CGPA: 7 **June 2023 – May 2025**

Indira Gandi National Open University (IGNOU) New Delhi, India
Bachelor of Computer Application; CGPA: 7.2 **June 2020 – May 2023**

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

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.

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.

CERTIFICATES

Introduction to Data Science (Cisco Networking Academy) |Certificate
Data Analytics Essentials (Cisco Networking Academy) | Certificate
Python Basic (HackerRank) | Certificate