

Rahul Raj

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Data Analysis | Decision Analytics | Data Visualization | Machine Learning | SQL | Tableau | Excel | Business Analyst

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Technical SKILLS

Programming language:
Python

Python Packages/libraries:

Numpy | Pandas | Matplotlib |
Seaborn | sklearn | requests |
BeautifulSoup | missingno |

Machine Learning:

Linear Regression | Lasso |
Ridge | ElasticNet |

Database:

MySQL | SQL server |

Dashboarding Tools:

Tableau | Excel |

DASHBOARD

TABLEAU Projects

1. Covid Infections and Death
Analysis Project Dashboard [link](#)
2. Covid Vaccinations Worldwide
Analysis Project Dashboard [link](#)
3. Airbnb Bookings Dashboard [link](#)

EXCEL

Bike Sales Analysis Project
Dashboard [link](#)

EDUCATION

PES UNIVERSITY

BE IN MECHANICAL

Aug 2017 - Aug 2021 | Bangalore

CERTIFICATE

Data Visualization Tableau
Dec 2022 | Great learning
Python Basics
Oct 2021 | Almabetter
Data Analysis
Oct 2021 | Almabetter
SQL Fundamentals
Oct 2021 | Almabetter

EXPERIENCE

COGNIZANT | PROGRAMMER ANALYST

Feb 2022 - Present | Bangalore

- Perform EDA on different clients and created different Data schemas and Technical Workflows to fetch data into the schema using Adobe Campaign Classic.
- Created a campaign workflow for sending out emails and updating in data schemas and sending a "Thank you" email in response and appending the rejection data schema.

ALMABETTER | DATA SCIENTIST TRAINEE

Aug 2021 - Nov 2022 | Bangalore

- Learned data science fundamentals and tools like **Python, SQL, Tableau** and **Excel**
- Completed various hands-on projects **Data Science** topics

FINFLUX | DATA ENGINEER INTERN

Aug 2021 - Oct 2021 | Bangalore

- Analyzed microfinance customer data like credit score, loan repayment history, household size, and gross annual income, to identify potential loan candidates, detect potential fraud risks, and determine the likelihood of loan approval.
- Created descriptive reports to guide finance owners in making informed lending decisions based on analysis and to improve loan approval rates for qualified customers.

PROJECT

Startups Profit Prediction Machine Learning Project - Jan 2023 [link](#)

- Created a Machine Learning project to analyze and improve the success of startup companies by understanding their spending patterns and future performance.
- Performed **Data Cleaning** and **Normalization** of data distribution and Applied **Linear regression** with 95% train and 93.5% test accuracy but it had high error **Lasso regression** improved model accuracy and predictions with cross-validation and hyperparameter tuning, while **Ridge regression** performed poorly.
- **ElasticNet** improved the model to 94.9% train and 94.6% test accuracy, making it the best method for prediction and compared the **MSE, MAE, R2** of all models

Exploratory Data Analysis Projects July 2021 - Jan 2023

1. **Hotel Booking Analysis:** project [link](#)
 - This project involved analyzing hotel booking data using EDA techniques like univariate, multivariate analysis, visualization and statistical analysis to reveal patterns, trends, and relationships within the data to understand features and draw out actionable insights.
 - Conclusions are drawn from decision-making factors to predict customer behavior within the market to improve performance and give improvement ideas to owners.
2. **Black Friday Data Analysis:** project [link](#)

In this project we analyze a Retail company's data using EDA techniques to understand customer behavior against various products of different categories and plot visualization to reveal patterns, trends, and calculate the amount spent wrt the type of individual.
3. **Zomato Food Delivery Data Analysis:** project [link](#)

Analyzed the Zomato data to draw insights and patterns and grouping by different cases to find which place orders which type of food, average rating and other conditions

Web Scrapping Projects Dec 2022 - Jan 2023

1. **Ambitionbox Job Profile Web Scrapping Project:** project [link](#)

Using "**BeautifulSoup**" we gathered data on Data Science job opportunities from Ambition Box website and formatted them into a **DataFrame** for analysis.
2. **Books Data Web Scrapping Project:** project [link](#)

Fetching Books data like Title, Price, Rating and Stock details using BeautifulSoup library