# DEBABRATH

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## SKILLS

**Languages:**    Python, Java, SQL
**Data Analysis:**  Tableau, Power BI
**Soft Skills:**   Leadership, Adaptability, Communication Skills

## PROJECTS

**Tata Motors Stock Price Forecast** | Python, ML Predictive Analysis                    Aug'24

- Developed a machine learning-based stock price forecasting model using Linear Regression, ARIMA, and SARIMA, improving predictive accuracy for informed investment decisions.
- Engineered and optimized features to capture key market trends, enhancing model performance and reducing forecasting error.
- Conducted comparative analysis of different models, selecting the best-performing approach for reliable stock price predictions.

**Grocery Store Optimal Price Prediction** | Python, Machine Learning                    June'24

- Developed a machine learning-based pricing optimization model using Scipy Optimization, Linear Regression, and Data Preprocessing to maximize revenue.
- Engineered and optimized pricing strategies by analyzing customer response rates, sales volume, and profit margins, improving overall profitability.
- Implemented data cleaning, imputation, and feature scaling techniques, ensuring accurate model predictions.
- Conducted a comparative analysis of pricing strategies, selecting the optimal price points for 250+ grocery products.

## CERTIFICATIONS

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|---|---|
| Machine Learning with Python - Foxmula | Aug'24 |
| Exploratory Data Analysis for Machine Learning - IBM | June'24 |
| Azure AI Fundamentals - Microsoft | Jul'24 |
| Introduction to Generative AI - Google | June'24 |

## ACHIEVEMENTS

**Published a Research Paper on Stock Price Analysis Through Machine Learning Models (IJRAR)** An International Journal of Research and Analytical Reviews                    Oct'24

## EDUCATION

**Bachelor In Computer Science & Engineering Specialization in Data Science**    Phagwara, Punjab
Lovely Professional University                                                  Aug 2022 - Present

**Senior Secondary**                                                            Hyderabad, Telangana
Kendriya Vidyalaya                                                              April 2020 - May 2022

**Secondary**                                                                   Hyderabad, Telangana
Kendriya Vidyalaya                                                              Mar 2012 - June2022