

DEBABRATH

Linkedin: www.linkedin.com

Github: [Debabrath7](https://github.com/Debabrath7)

Email: Debabrath07@gmail.com

Mobile: 9100254762

SKILLS

Languages: Python, Java, SQL

Data Analysis: Tableau, Power BI

Soft Skills: Leadership, Adaptability, Communication Skills

PROJECTS

Big Mart Sales Price Optimization | Python, Machine Learning June'25

- Developed an end-to-end machine learning pipeline to predict product prices for a retail store using the Big Mart dataset.
- Performed comprehensive data cleaning, EDA, and feature engineering to handle missing values, encode categorical variables, and engineer new features.
- Evaluated multiple models (Linear Regression, Random Forest, XG Boost); selected XG Boost Regressor with RMSE ~1065 as the final model.

Prompt Engineering for LLM-based Chatbot – Orb IQ Feb'25

- Designed and tested prompt templates using real-world QA examples from the Natural Questions dataset to improve LLM response quality.
- Evaluated outputs manually and via semantic similarity metrics to iterate on prompt phrasing and context formatting.
- Currently building a prompt testing framework to support systematic benchmarking across multiple LLMs..

Tata Motors Stock Price Forecast | Python, ML Predictive Analysis Nov'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.

CERTIFICATIONS

Machine Learning with Python - Foxmula Aug'24

Azure AI Fundamentals - Microsoft Jul'24

Exploratory Data Analysis for Machine Learning - IBM June'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