Ritabrata Chakraborty

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M. Sc. Physics | Data Analyst | Data Scientist

(+91) 7980613785

[Portfolio Website](.) | [LinkedIn](.) | [GitHub](.) | [Tableau](.) | [Kaggle](.)

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PERSONAL PROJECTS

<u>Flight Fare Predictor</u> — *Data Science Project*

Developed a flight fare prediction model using a Random Forest Regressor algorithm, trained on historical flight data, and implemented a user-friendly web application for fare predictions. Utilized data preprocessing, feature engineering, and hyperparameter tuning for model optimization.

<u>Gold Stock Price Prediction</u> — *Data Science Project*

Developed a dual-model system for gold stock price prediction, comprising a *classification model* for buy/sell recommendations and a *regression model* for predicting closing prices. Evaluated multiple machine learning models, selecting the optimal ones based on *accuracy* and *R2 score*.

<u>Student Performance Indicator</u> — *Data Analysis Project*

Performed thorough data cleaning and analysis on Student Performance data using Python, producing insightful visualizations highlighting key factors influencing student performance within a Jupyter notebook. Additionally, developed a machine learning model for predicting maths scores, employing various models and selecting the optimal one based on R2 score.

CERTIFICATION COURSES

OCTOBER 2022 – PRESENT

- Google Data Analytics Professional Certificate
- Machine Learning Specialization
- Deep Learning Specialization
- Mathematics for Machine Learning and Data Science Specialization
- Introduction to Git and Github
- Programming for Everybody (Getting Started with Python)
- Python Data Structures
- Learning How to Learn: Powerful mental tools to help you master tough subject

EDUCATION

Osmania University, Hyderabad — *M.Sc. Physics*   *Cumulative Grade Point Average : 8.56*

APRIL 2020 - OCTOBER 2022

Master of Science in Physics with a specialization in Solid State Physics, graduated with distinction as a top performer, demonstrating exceptional proficiency in advanced concepts within the field.

University of Calcutta, Kolkata — *B. Sc.*   *Percentage : 55.69%*

JULY 2015 - OCTOBER 2019

Bachelor of Science with a concentration in Physics, Mathematics, and Chemistry, showcasing comprehensive academic foundation and interdisciplinary expertise.

SKILLS

- Python
- SQL
- Spreadsheet
- Tableau
- Machine Learning
- Deep Learning
- Neural Networks
- Predictive Analysis
- Data Analysis
- Git and Github
- Data Visualization

LANGUAGES

- English
- Bengali