

Ritabrata Chakraborty

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M. Sc. Physics | Data Analyst | Data Scientist

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

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PERSONAL PROJECTS

Gold Stock Price Prediction — 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*.

Cyclistic Case Study — Data Analysis Project

Conducted *comprehensive data cleaning* and *analysis* of Cyclistic's 2023 trip data using *SQL* and created *insightful visualizations* in *Tableau*. The resulting findings will inform *targeted marketing strategies* for the campaign by highlighting key distinctions in bike usage patterns between casual riders and annual members.

Student Performance Indicator — 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*.

SKILLS

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

LANGUAGES

- English
- Bengali

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.