

Debayjoti Roy

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EDUCATION

JADAVPUR UNIVERSITY

M.E IN COMPUTER SCIENCE

Expected August 2023 | Kolkata, IN

Cum. GPA: 8.77

TECHNO INDIA COLLEGE OF TECHNOLOGY

B.TECH IN COMPUTER SCIENCE

2021 Graduate | Kolkata, IN

Cum. GPA: 8.91

LINKS

linkedin.com/in/debayjotiroy

leetcode.com/debayjotiroy

github.com/debayjotiroy

COURSEWORK

POSTGRADUATE

- Deep Learning and Pattern Recognition
- Natural Language Processing
- Machine Learning • Image Processing

UNDERGRADUATE

- Data Structure and Algorithms.
 - Object Oriented Programming.
 - OS, DBMS, Computer Networks
- Intro to: Java, C++.

SKILLS

TECHNICAL

- Python • JAVA
- C++ • PyTorch • TensorFlow
- Linux • SQL-Server
- Keras

Familiar:

- Spring Framework • GraphQL
- Git and GitHub

ACHIEVEMENTS & P.O.R

- Qualified GATE Computer Science 2021 with **98.8** percentile among **1.5 Lakh** Candidates.

- Central Placement Coordinator for 2023 batch at Jadavpur University.

PUBLICATIONS

STOCK MARKET PREDICTION USING DEEP LEARNING

ALGORITHMS | JOURNAL PUBLICATION WILEY | View Publication

July 2021

- Predicted Stock market data values using various Deep Learning Algorithms like **CNN** and **ANN** and did a comparative study.
- Tested the model during extreme market fluctuation period due to COVID-19 (April 2020-August 2020) and received a **91.4% accuracy**

STOCK MARKET PREDICTION USING SENTIMENT ANALYSIS |

SPRINGER CONFERENCE PROCEEDING | View Publication

September 2019 | Siliguri, WB

- Predicted Stock market data values of upcoming 2 weeks based on previous 10 years of data from NSE data-set.
- Implemented **Geo-twitter sentiment analysis** for predicting the data and validated the model using **ARIMA** and **VAR** techniques.

PROJECTS

PREDICTING DRUG MECHANISMS FOR REPURPOSING THROUGH MOLECULAR REPRESENTATION LEARNING. |

MASTERS THESIS

- Built a **Complex Heterogeneous Graph Database** which holds various bio-molecular interactions along with their properties.
- Implemented **Graph Neural Networks** for making the link prediction of whether an unknown bio-molecule can react to the existing condition of an individual.

MOVIE-FY (A CUSTOMIZED MOVIE RECOMMENDATION APP) |

View Project

- Built an End to End **Content Based Movie Recommendation system** using standard NLP models.
- Worked with **TMDB movie API**, and made the predictions based on the users choice and **Deployed** the model using Heroku.

IPL INNINGS SCORE PREDICTOR | View Project

- Built an Innings score predictor using Linear as well as Ridge regression model and did a comparative study.
- Processed more than **76000** raw data of every IPL match played since 2008-2017, and achieved a model accuracy of **88.87 %**.

EXPERIENCE

CAPGEMINI INDIA | ANALYST INTERN

May 2021 – August 2021

- Built an Online Cab Booking application from scratch using Java, J2EE, Spring Framework.
- Built REST APIs for client server interaction and wrote JUnit Test Cases for various edge case scenarios.