Taniya Das

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Education

Indian Institute of Technology, Kharagpur — Kharagpur , West Bengal
Bachelor of Technology in Industrial and Systems Engineering(current CGPA = 9.51) — *Aug. 2023 – present*

Vivekananda Mission School — Kolkata, West Bengal
secured a percentage of 97.5 in Class XII boards(ISC) — *Apr. 2021 – March 2023*

Vivekananda Mission School — Kolkata, West Bengal
secured a percentage of 98.4 in Class X boards(ICSE) — *Aug. 2007 – March 2021*

Certifications

Finlatics Data Science Program | *Python* — May 2024 – August 2024

- Conducted a comprehensive case study on data analysis, focusing on scenario building, sensitivity analysis, and regression
- Analyzed a banking dataset using Python libraries(Pandas, NumPy, Seaborn) to generate insightful visualizations and data-driven conclusions.
- Developed and presented findings through a detailed PowerPoint presentation.

Finlatics Machine Learning Program | *Python* — May 2024 – August 2024

- Conducted a machine learning case study using linear regression for sales prediction and K-means clustering for Facebook dataset analysis.
- Applied Scikit-Learn for model implementation and data preprocessing, and created visualizations with Python libraries.
- Developed and presented findings in a PowerPoint presentation and received certificates for the same.

Open IIT Data Analytics | *Python*

- Actively collaborated within a multidisciplinary team of 15 participants from various academic years.
- Conducted exploratory data analysis on flight data to identify patterns and factors influencing flight delays.
- Developed and applied machine learning models, including XGBoost, CatBoost, and AdaBoost, to predict flight delays, achieving 4th place in a competitive event among multiple teams.

DIY Project | *Course Project* — Oct 2023 – Nov. 2023

- Developed a DIY clap switch project using Arduino, sound sensors, and relay modules.
- Implemented functionality where a single clap turns on a fan and a double clap activates a light.

Technical Skills

Languages: Java, Python, C/C++, ArduinoIDE
Libraries: pandas, NumPy, Matplotlib, Scikit-Learn, Seaborn

Awards and Achievements

- Semi-finalists in the Empower Student Product Design Challenge 2024 for designing a solution to ease wheelchair-to-car transfers.
- Secured third position along with my team mate in Elevator Pitch Competition, organized by Entrepreneurship Cell, IIT Kharagpur

Positions of Responsibility

Associate Member—former Junior Member—Prodex
Indian Institute of Technology, Kharagpur

- Leading a team of 40 members, along with 20 peers, mentoring them in product development across areas such as IoT, machine learning, mechanical modeling, and related disciplines.

Coursework

Programming and Data Structure |Operations Research 1 | Probability and Statistics | Engineering Economy | Basic Electronics | Advanced Calculus | Linear Algebra,Numerical and Complex Analysis | Economics

Extra-Academic Activity

Participant of NSO Yoga at IIT Kharagpur from the 1st semester till date