



## EDUCATION

Year	Degree/Exam	Institute	CGPA/Percentage
2025	B.Tech	Indian Institute of Technology Kharagpur	7.86
2021	Class XII, HSC	Ashok Vidyalaya and & Jr. College	91.67%
2019	Class X, CBSC	Kukadi Valley Public School	94.60%

## INTERNSHIPS AND PROJECTS

### Statistical Model for Stock Price Prediction

Prof. Prabina Rajib

- Developed and implemented statistical models, using ARIMA, GARCH, and ECM for stock price prediction and financial forecasting
- Successfully attained an average forecasting precision of 68%, demonstrating a track record of accurate financial forecasting
- Applied models to historical stock price data, enabling the optimization of portfolio management strategies and investment decision-making
- Utilized Python for data analysis and model implementation, with a focus on time series analysis and quantitative forecasting

### PDF Reader Using Generative AI

- Developed an advanced PDF reader using Generative AI and Language Model, enabling text extraction, PDF handling, and content base Q&A
- Implemented efficient text processing and search feature using Langchain and HuggingFaceInstructEmbeddings, enhancing information
- Hosting the interactive application on Hugging Face, showcasing deployment skills and seamless user experience

### Mitigation of Radio Frequency Interference from Time Domain Data of GMRT

Prof. Jayanta Roy

- Led RFI mitigation efforts for GMRT time-domain data, enhancing survey accuracy and sensitivity of Pulsar signals
- Conducted a comprehensive evaluation of GP-tool and IQRM, evaluating their functionality and runtime performance
- Utilizing spectral statistics to detect outliers in GMRT data and enhance radio frequency interference (RFI) mitigation techniques.

### Loan Repayment Predictor and Risk Assessment Tool

- Created a Python model for Loan repayment predictions using historical loan data.
- Implemented a tool for assessing prospective customers, streamlining data-driven loan approval decisions based on the model's predictions.
- Assessed model effectiveness, employing classification metrics to ensure a robust risk assessment system for future loan applicants

### Fake News Detector

- Developed and implemented a high-accuracy fake news detection model
- Spearheaded data preprocessing and fine-tuned both Gradient Boosting and Decision Tree models for superior fake news identification
- Implemented end-to-end deployment of the fake news detection solution, ensuring a robust system for combating misinformation.

## SKILLS AND EXPERTISE

- **Programming Languages:** C++ | C | Python | HTML | CSS
- **Operating System :** Linux(Ubuntu) | Windows
- **Software/Packages:** Microsoft Office | Microsoft Excel | Gedit | Jupyter Notebook
- **Frameworks and Libraries:** NumPy, Pandas, Matplotlib, yfinance, seaborn,

## COURSEWORK INFORMATION

- |                                       |                               |                                |
|---------------------------------------|-------------------------------|--------------------------------|
| ○ Programming & Data Structure        | ○ Systems and Control         | ○ Analog Electronics Circuits  |
| ○ Probability and Statistics          | ○ Electromagnetic Engineering | ○ Digital Electronics Circuits |
| ○ Linear Algebra & Optimisation Model | ○ Signals and Systems         | ○ Network Theory               |

## POSITIONS OF RESPONSIBILITY

### Governor & Sponsorship Head | Public Policy & Governance Society

Apr'23 - present

- Founded the Public Policy and Governance Society and took the lead in designing and developing the society's website, using HTML and CSS
- Conducted and hosted the largest talk show **SAMVAAD** in collaboration with the SAMVAD team, featuring over 400 participants
- Organized talk shows featuring UPSC rankers and spearheaded a mentorship program, benefiting over 100 aspirants

### Junior Manager, Outgoing Global Talent | AIESEC in IIT Kharagpur

July'22 - Jan'23

- Executed and promoted student exchange programs and related activities as a front-office representative
- Organized a captivating on-campus treasure hunt event, engaging 350+ enthusiastic students and generating an impressive INR 25,000

## COMPETITIONS

### Silver Medal | Product Design | Inter-Hall General Championship 2023 | Low-Energy Vaccine Cold Storage Box

- Designed the structure of a vaccine container box for cold temperature maintenance and ideated a mechanism for active temperature control
- Implemented the concept of endothermic dissolution of ammonium nitrate in water, as a novel low-energy method for cooling vaccine
- Saved about 16% on operating energy and increased the transportation life by 140% by moving away from traditional high-energy refrigeration

### Silver Medal | Ad Design | Inter-Hall General Championship 2023

- Developed a strategic marketing plan for a fitness app, including target market identification, persona creation, and channel selection
- Conducted impactful surveys to pinpoint ideal product messaging, theme, and advertising concept

## EXTRA CURRICULAR ACTIVITIES

- Secured 2nd position in General Championship-What's the Good Word 2023
- Engaged as an NSS volunteer in community development initiatives aimed at improving education, healthcare, and socio-economic conditions