



EDUCATION

Year	Degree/Exam	Institute	CGPA/Marks
2025	4YRS B.S	IIT Kharagpur	8.46 / 10
2021	ISC	Salt Lake School(English Medium)	97.50%
2019	ICSE	Salt Lake School(English Medium)	95.40%

INTERSHIPS AND PROJECTS

Incoming Summer Intern Piramal Capital and Housing Finance Limited	[June'24 - July'24]
Received an offer for Software Development role for the upcoming summers during the On-campus Internship Drive at IIT Kharagpur	
Research Intern IIIT Hyderabad	[May '23 - Present]
Objective: Multiarm Bandit(MAB) Algorithms Analysis Guide: Prof. Tejas P. Bodas (Department of CSE)	
<ul style="list-style-type: none">Performed regret analysis on different Multiarm Bandit algorithms, and compared them for the case of Dynamic Pricing using PythonWorked on optimising the Reinforcement Learning algorithms such as Upper Confidence Bound Algorithm and Thompson SamplingResearched on Gittin's Index, its optimality and order of regret when used in different scenarios of linear and contextual bandits	
ChitChat A web chat application	[May '23]
<ul style="list-style-type: none">Developed a room-based chat application for multiple users to join rooms and engage in live conversations with user authenticationUtilized React.js, Bootstrap, HTML, and CSS for the front-end, and created a dynamic user interface for enhanced user representationImplemented instant message updates and synchronization between the users using Node.js and Socket.IO framework in the backend	
Credit Card Fraud Detection Self Project	[May '23]
<ul style="list-style-type: none">Implemented data analysis, and preprocessing to handle an imbalanced dataset consisting 492 fraud cases out of 284,807 transactionsApplied under-sampling techniques to balance dataset, and used appropriate metrics such as accuracy, precision, recall, and F1-scoreExecuted logistic regression with various tuning parameters and decision tree classifiers on the dataset to achieve a F1 score of 0.95	
CompressFile Text File Compressor	[Jun '23]
<ul style="list-style-type: none">Ensured lossless compression of large text files and retrieval of contents of the files using Huffman Encoding-Decoding AlgorithmDeployed a website using HTML, CSS and Javascript achieving an average compression rate of 43% with ratio being more for larger files	

COMPETITION/CONFERENCE

Inter Hall Data Analytics General Championship	[Mar '23]
<ul style="list-style-type: none">Estimated the risk level of an automated manufacturing unit using data from 25 sensors and predicted state of unit every 10 minutesPreprocessed the time-dependent data set of 50,000 samples recorded by each sensor every minute, to find any correlation in dataAchieved an accuracy of 89% after applying a Conv2D model and parameter tuning, getting an average F1-score of 0.84 on the test data	
Inter Hall Product Design General Championship	[Mar '23]
<ul style="list-style-type: none">Designed a product that could collect EEG data from brain using electrodes and classified stress levels quantitatively and qualitativelyProposed K-nearest neighbors to classify stress on a scale of 0-100 using input features in time, frequency, and synchronicity domain	

SKILLS AND EXPERTISE

Programming Languages: C | C++ | Python | HTML | CSS | Javascript* | Java* **Libraries:** STL | Git | MATLAB | TensorFlow | NumPy | Pandas | Matplotlib | Sklearn | Keras | ReactJs* | Bootstrap* **Tools:** Jupyter Notebooks | Overleaf | Google Collab | VS Code (*Familiar)

AWARDS AND ACHIEVEMENTS

- Secured an All India Rank of **1252** in JEE Advanced 2021 (i.e. **top 0.8 percentile**) and achieved **99.7 percentile** in JEE Mains 2021
- Chosen for the prestigious **INSPIRE Scholarship** 2021, awarded by the **Department of Science and Technology (DST), MoST, India**
- Secured an All India Rank of **122** in the renowned **West Bengal Joint Entrance Examinations (WBJEE)**, in a pool of **1 lakh+** candidates
- Selected in the state merit list of **National Talent Search Examination** and first stage of **KVPY SA** stream amongst **1 lakh+** candidates

COURSEWORK INFORMATION

Mathematics: Probability and Statistics | Combinatorics and Graph Theory | Stochastic Processes | Modern Algebra | Linear Algebra
Computer Science: Theory of Computations | Programming and Data Structures | Machine Learning Specialization(MOOCs)

POSITIONS OF RESPONSIBILITY

Governor Communique Technology Students' Gymkhana IIT Kharagpur	[Jan'22 - Present]
Part of 6 executives of Soft Skills & Personality Development Society 27 events, 8 collaborations Budget of INR 1.6 lakhs	
<ul style="list-style-type: none">Led and trained a team of 36 associates and conducted Global Model United Nations'23, with 200+ participants from all over IndiaHandled the corporate relations and onboarding of sponsors for GMUN'23, garnering funds amounting to INR 1.2 lakhs	
Associate Member GES Intern Entrepreneurship Cell IIT Kharagpur	[Jan'22-May'23]
<ul style="list-style-type: none">Organized Global Entrepreneurship Summit, a 4-day annual corporate summit, with participation of 3000+ students across the countryConducted Local Startups Meet'22 Kolkata, hosting 100+ Startups and 10+ Investors, onboarded local sponsors and media partners	
Executive Head Consultant 180 Degrees Consulting	[Jan'22-May'23]
<ul style="list-style-type: none">Connecting with 35+ potential clients from Health and Enterprise Tech Start-Ups as part of the Client Acquisition and Strategy TeamLed 5 diverse projects involving non-profits and startups, ensuring successful delivery and generating revenue exceeding INR 50k	

EXTRA CURRICULAR ACTIVITIES

- Obtained the **3rd Runner Up** position in the **Inter Hall Case Study**, General Championship amongst **21 halls** held in IIT Kharagpur
- Secured **4th** spot in the **Inter Hall Ad-Design**, General Championship amongst **21 halls** organised by Technology Students' Gymkhana