



EDUCATION

Year	Degree/Exam	Institute	CGPA/Marks
2025	5 YRS M.SC	IIT Kharagpur	7.33 / 10
2019	Class 12 (Jharkhand Academic Council)	Govt. GHS Bariyatu , Ranchi	79.4%
2017	Class 10 (Jharkhand Academic Council)	JBC +2 High School, Jamtara (Jharkhand)	91.2%

PROJECTS

Assessing Risk Factor and Roadside Features using Computer Vision | Prof. Jhareswar Maiti **may '23-july'23**

- Conceived and executed a project to Assess Risk Factors and Analyze Roadside Features using Advanced Computer Vision Techniques.
- Trained the Model using yolov5 Model and Detected Roadside Features using Camera Vision and Remote Sensing.
- Hazard Severity Prediction using the Predicted Roadside Features, Applied Risk Analysis to Determine Roadside Hazard Rating (RHR).
- Applied Machine Learning Algorithms and Image Processing Techniques to identify and quantify Roadside Features and Rated the Risk.

RP Hall Menu Election - API | Nodejs | Self Project**Oct '22**

- Built an **API** in **NodeJs** to be used by mess or canteen services to decide food menu for the week as per the customers wish.
- Programmed **Floyd Warshall algorithm** in JavaScript and tweaked it accordingly to implement **Schulze method** of voting.
- Used **Schulze method** to declare a single winner as well as rank list of food items using votes that express preferences.

Text Compression using Huffman Algorithm | Self Project**Jun '22**

- Developed a text compression program using the Huffman algorithm for encoding and decoding the input text.
- Demonstrated Lossless Compression and Variable Length Encoding techniques and their implementation.

COMPETITION/CONFERENCE

Open Soft | General Championship | IIT Kharagpur**Feb '23**

- Secured Gold for developing a microservice, empowering a **fintech company** to analyze financial statements of diverse users and banks
- Utilized data scraping on the **NSE dataset** to categorize companies for sector-wise financial analysis and personalized expenditure insights.
- Created an advanced **Analyzer module** for transaction preprocessing, delivering actionable insights and predicting future financial trends

COURSEWORK INFORMATION

Statistical : Probability and statistics | Advance calculus**Miscellaneous** : Programming and Data Structures | Introduction to Financial Management | Economics

SKILLS AND EXPERTISE

- **Programming Skills** : Proficient: C/C++ Familiar: Python | JavaScript | HTML | CSS | ReactJS
- **Libraries** : TensorFlow | OpenCV | Pytorch | NumPy | Matplotlib
- **Technologies** : Node.js | Visual Studio Code | Jupyter Notebook | Colab
- **Interpersonal Skills**: Team Work | Leadership | Time Management | Problem Solving | Responsibility

CERTIFICATIONS

Supervised Machine Learning: Regression and Classification (Coursera)

- Completed 3-week course conducted by Dr. Andrew Ng (Founder of DeepLearning.AI).
- Developed a throughout understanding of Supervised Machine Learning, including Regression and Classification Algorithm.

Advanced Learning Algorithms (Coursera)

- Completed 4-week course covering techniques advanced machine learning algorithms, deep learning, reinforcement learning.

AWARDS AND ACHIEVEMENTS

- Got **Sarvshreshth Chhatra Puraskar** from **Honorable chief minister** of Jharkhand state for Excellence in Academics in year 2020.
- Won **Most loved fresher Award** of Rajendra Prasad hall of residence (for being most active in Hall Activities) in the Year 2021-2022.

POSITIONS OF RESPONSIBILITY

Mess Auditor | R.P hall of Residence | IIT Kharagpur**[2022-23]**

- Maintained detailed records of all transactions and expenses, providing valuable data for future analysis and decision-making.
- Built a democratic voting system to allow residents to have say in the weekly mess menu, increasing resident satisfaction and engagement.
- Contributed to the overall success of the RP Hall community by ensuring the provision of high-quality and nutritious meals for residents.

Secretary, Cricket and Athletics | R.P Hall of Residence | IIT Kharagpur**[2021-22]**

- Elected representative by an electorate of **830+** students to lead its effort to compete in the Inter Hall Cricket and athletics Championship.
- Managed a budget of **INR 300000** for improvement of the sports facilities & proper conduction of all inter and intra hall activities.
- Successfully conducted more than 50 practice sessions which lead the Athletics team to secure 3rd position in the Inter Hall Competition.
- Organized various events like **Cric-Mania** which is the biggest tournament for cricket open to all the students of IIT Kharagpur.

EXTRA CURRICULAR ACTIVITIES

- Part of the **Gold** winning **cricket** team of Rajendra Prasad Hall in the Inter Hall General Championship 2023.
- Part of the **Gold** winning **Athletics** Team of Rajendra Prasad Hall in the Inter Hall General Championship 2023.
- Part of the **Gold** winning **Choreography** team of Rajendra Prasad Hall in the Inter Hall General Championship 2022.
- **Cadet** at unit 3 BENGAL AIR (TECH) SQN, **National Cadet Corps (NCC)**, Kharagpur Group, IIT Kharagpur 2020-2022.