



CIVIL ENGINEERING/ARTIFICIAL INTELLIGENCE MACHINE LEARNING AND APPLICATIONS

EDUCATION

Year	Degree/Exam	Institute	CGPA/Marks
2023	MTECH Dual Degree 5Y	IIT Kharagpur	7.73 / 10
2019	AISSCE	Sri Chaitanya Techno School	8.6 / 10
2017	AISSCE	VKV Balijan	9.6 / 10

INTERNSHIPS AND PROJECTS

MARKETING INTERNSHIP | TUTEDUDE | NEW DELHI

[NOV 2021- DEC 2021]

- The objective was to **understand the market**, reach out to the potential customer segment and shared the product insights
- Prepared detailed **promotional material/presentations**, conduct market study and present the company profile
- Contributed to the **creative social media content** and worked on sales core customer feedback & competitor analysis
- Successfully generated **4000** rupees sale for the start-up and I got the 2ndbest scorer across all the social media platforms

DRIVERS DROWSINESS DETECTION AND PREDICTION | PROJECT | IIT KHARAGPUR

[APR 2022 - JULY 2022]

- The objective of the project was to predict and detect the drowsiness level of the driver using **OpenCV**, **dlib** and other python libraries
- Prepared a Python-based model and calculated **eye aspect ratio** and **mouth aspect ratio**, compared them to respected threshold
- Achieved an adequate accuracy of 78% and 80% Eye Detection, Yawning Detection respectively and successfully applied to 10+ students

MARKET RESEARCH ANALYSIS | AUTUMN ROBOTICS | BANGALORE

[JULY 2022 - AUG 2022]

- The objective was to collect data on consumers, competitors and market place and consolidate information into actionable items, reports
- Performed valid and reliable market research **SWOT analysis**, **Interpret data**, formulate reports and make recommendation
- Used online market research and catalogue findings to databases
- Successfully did competitive analysis on various companies market offerings, identify market trends, pricing/business models

INTELLIGENT TRAFFIC MANAGEMENT SYSTEM | PROJECT | IIT KHARAGPUR

[OCT 2022 - NOV 2022]

- The **goal** is to route the paths of EVs such that the time taken by the EV that reaches its destination, at last, is minimized
- Prepared **A* search framework** can be met this challenges and **dynamically adapting edge costs**
- Experimental results with real road networks and **vehicle data demonstrate the advantages of our solution**

COMPETITION/CONFERENCE

KHARAGPUR DATA SCIENCE HACKATHON | HACKATHON | IIT KHARAGPUR

[DEC 2022 - JAN 2023]

- The goal of the completion was to **identify the best promotional channel for every HCP for the upcoming week**
- Predicted BrandRx using the neural network model with the best results as it deals with the non-linearity and complexity among the features
- Achieved first positions (Gold) for successfully building a best **LSTM Model-based recurrent neural network** with adequate score of **85%**

AWARDS AND ACHIEVEMENTS

- Cleared **National Engineering Olympiad (NEO)** on the first attempt and secured AIR of 296 among 18 million students
- Cleared **Management Olympiad Exam** on the first attempt and secured AIR of 14 and got a certificate of excellence
- Received a certificate of appreciation from REWE for being the first women student to be in an IIT from my village

SKILLS AND EXPERTISE

Programming Language: C | Python
Softwares/Tools: SQL | Microsoft Office | Jupyter Notebook | Mix panel | Auto Cad | Rivet | MATLAB | Balsamique | Whimsicle

COURSEWORK INFORMATION

Offline : Machine Learning Foundations and Applications | Artificial Intelligence Foundations and Applications | Linear Algebra for AI and ML | Programming and Data Structure | Construction and Planning Management | Design of Steel Structure | Design Sessional | Probability and statistics | English for Communication | Design of RC (Reinforcement Concrete) Structure

Online : Data Analysis in Excel | Introduction to SQL | Introduction to Python | Data Science | Creating effective dashboard

POSITIONS OF RESPONSIBILITY

GOVERNOR | NORTH-EAST STUDENT COUNCIL | IIT KHARAGPUR

[JULY 2021 - APR 2022]

- Case study on different ways to increase awareness about north-east culture in India and our campus through our society
- Led and managed various mini- fest and collaborative fest with spring fest and other cultural societies

JUNIOR ASSOCIATE | TECHNOLOGY ENVIRONMENTAL SOCIETY | IIT KHARAGPUR

[AUG 2019 - APR 2020]

- Analyzed case study on different ways to increase awareness about the wastage in our campus and to minimize it
- Successfully organized orientation program where we talk about our society and give a brief introduction about work culture

EVENT MANAGER | IIT KGP VolleyBall Society | IIT KHARAGPUR

[JULY 2020 - APR 2021]

- Successfully organized and managed various events such as Inter Hall Volley-Ball Competitions, Open- IIT Competitions, etc
- Led and managed 50+ student members to organize various events like Farewell and Freshers

EXTRA CURRICULAR ACTIVITIES

- Part of **Silver winning** Volleyball team of SN/IG Hall of Residence during the general championship Games and Sports [2021-22]
- Participated and secured **5th position** in Inter-hall Data Analytics Competition, IIT Kharagpur in the year [2021-22]
- Participated in **National Sports Organization** (Volleyball, IIT Kharagpur) and was part of **INTER IIT VolleyBall Team** [2019-20]
- Participated in **INTER IIT CULTURAL FASHION** as a Model and was part of **gold winning contingent** [2021-22]
- Led and managed **50+** students as a **Class Representative** [2021-22]
- Participated in various **Chess** competitions and represent my school in the year [2015-17]
- Participated in **Extempore speech** and secured **3rd position** [2015-16]

