



EDUCATION

| Year | Degree/Exam | Institute | CGPA/Marks |
|------|---|----------------------------------|------------|
| 2026 | B.TECH | IIT Kharagpur | 7.92 / 10 |
| 2022 | Class XII ,Central Board of Secondary Education | S.T.S.V International School,ARA | 85.4% |
| 2019 | Class X ,Central Board of Secondary Education | Jean Paul's High School, ARA | 92.6% |

PROJECTS

Social Determinants of Health | IIT Kharagpur [Feb'24-March'24]

- Devised the **social care scorecard**, a data-driven tool to access individual **social support needs and health risks**, connecting people with essential services, particularly addressing **India's healthcare challenges**
- Used **clustering, LLM prompting, and embedding-based techniques** to autonomously acquire risk categorization of features and construct a hierarchical risk model
- Secured the **Gold** position alongside the team in the General Championship Data Analytics 2024, organized by IIT Kharagpur in partnership with **Evva Health**

AI Chatbot | IAS Prakhar Singh [May'24-july'24]

- Developed an AI chatbot using **LangChain** and **OpenAI's language model** to accurately respond to complex and diverse user queries.
- Integrated PDF processing with **PyPDF2** to enhance the chatbot's utility for handling document-based queries and user interactions.
- Demonstrated effective use of AI and ML to address real-world problems in **tourism** and **government document** processing efficiently.

Movie Recommendation System | Self Project [Jan'24-Feb'24]

- Conducted thorough EDA on **TMDB 5000** movie dataset, focusing on data cleaning and detailed visualization for comprehensive insights
- Extracted essential movie details such as plot, cast information, directors, ratings & popularity scores to facilitate content-based filtering
- Utilized **Bag-of-Words (BOW)** and **Tf-Idf** techniques to vectorize tags, employing cosine similarity for recommending top similar movies
- Implemented deployment of the Movie Recommender system using **Streamlit** to provide a seamless and user-friendly interface.

CERTIFICATIONS

Machine Learning | Stanford University(Coursera) [Nov'23-Jan'24]

- Implemented various **supervised learning** algorithms such as Linear and Logistic Regression, as well as Neural Networks using python
- Familiarized with key **unsupervised learning** algorithms namely K-means Clustering, and Anomaly Detection, enhancing skills in **identifying patterns** and **outliers** in unlabelled data
- Applied machine learning techniques on large datasets using Stochastic Gradient Descent and MapReduce for efficient data processing.

Introduction to Cloud Computing | IIT Kharagpur [Sept'23-Oct'23]

- Acquired a comprehensive understanding of essential **cloud computing** concepts and principles, including **IaaS, PaaS, and SaaS**.
- Gained practical experience with leading cloud platforms such as **Amazon Web Services (AWS)**, and **Microsoft Azure**
- Completed this course under the esteemed guidance of **Professor Sudip Mishra** from IIT Kharagpur

SKILLS AND EXPERTISE

Programming Languages: Python, C++, C, HTML, CSS, SQL **Software:** vs code, Jupyter Notebook, Google Collab
Libraries and Frameworks: NumPy, Pandas, Matplotlib, Opencv, Langchain, XGBoost, Pypdf2, Keras, Pillow Streamlit, Bootstrap

COURSEWORK INFORMATION

Programming and Data Structures * | Probability and Statistics | Linear Algebra | Advance Calculus | Economics | Surveying and Error Management

AWARDS AND ACHIEVEMENTS

- Secured a position among **top 4%** in Joint Entrance Examination(JEE) Advance 2022 among more than 170000 students
- Secured a position among **top 0.5%** in Joint Entrance Examination(JEE) Mains 2022 among more than 900000 students
- Currently hold the **Department Rank 5** among **100+** students of the MI department and also was the **CR** in 4th semester

POSITIONS OF RESPONSIBILITY

Executive Head | Public Policy and Governance Society | IIT Kharagpur [May'23-Present]

- Facilitated the acclimatization of **100+ freshman** to the insitute's environment by helping in organizing a meet-up
- Organized many seminars with **IAS officers**, addressed over **500+** students, fostering knowledge exchange and career insights.
- Guided and Mentored **50+ freshmen** students with a team in acclimatizing to the Environment of the Institute

Associate Member | Technology Mining Engineering Society | IIT Kharagpur [Dec'22-Aug-23]

- Part of the organizing team for India's Largest Departmental Fest, Great Step 2022, ensuring a successful event
- Managed accommodation for over 500 students from other colleges during the Great Step event
- Organized events like safety data analytics, geo biotics, safety hunt, and mineo case study at Great Step

EXTRA CURRICULAR ACTIVITIES

- Actively involved in the construction of the **Silver** winning **Illumination** of Lala Lajpat Rai Of Residence in November 2023.
- Participated in the Inter Hall Badminton tournament conducted by Technology student's Gymkhana with Lala Lajpat Rai Hall of Residence
- Participated in Intra-Hall Cricket Tournament organised by Lala Lajpat Rai Hall of Residence in March 2023
- Attended **Disaster Management programme** Covering basics of Rescue Techniques, First aid, Fire Fighting, and Rehabilitation Work
- Attended the **Swatch Bharat abhiyan** organised by NSO health and fitness with my teammates of my unit 11