



EDUCATION

Year	Degree/Exam	Institute	CGPA/Marks
2026	M.TECH Dual Degree 5Y	IIT Kharagpur	8.22 / 10
2021	Higher Secondary Certificate Examination	Maharashtra State Board	97.67%
2019	Secondary School Certificate Examination	Maharashtra State Board	87.80%

INTERNSHIPS

Adobe Systems Noida, Uttar Pradesh Product Intern	May'25-July'25
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Objective: To develop a PDF to video generation system for financial documents

- Implemented a **PDF-to-Video generation pipeline** using Generative AI to produce video summaries of text-heavy financial documents.
- Automated video content generation by integrating Matplotlib, MoviePy, GPT-4o Image Generation, and Adobe Text-to-Speech APIs.
- Built a fully automated system capable of transforming **30–50 page documents into video presentations** within **10–20 minutes**.
- Delivered engaging video presentations with synchronized visuals and narration, improving information accessibility and user experience.

University of Oulu Prof. Shuai Li Research Intern	May'24-June'24
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Objective: Attacking audio classification neural nets using BAS algorithm

- Created a successful attack using the **Beetle Antennae Search algorithm** on a **CNN** trained on audio data using Tensorflow and **Keras**.
- Preprocessed the Mini Speech Commands dataset, which contains over 8,000 audio files, converting raw waveform data spectrograms.
- Compromised the network's **accuracy** by modifying few pixels in the input spectrogram, causing misclassification of samples.
- Achieved a success rate of over **5%** in the untargeted attacks using BAS, a first of its kind result for an audio classification network.

PROJECTS

React Weather Application Self Project	May'24-June'24
<ul style="list-style-type: none"> Developed a dynamic and responsive web application using ReactJS, HTML, and Bootstrap to deliver real-time weather information. Implemented geolocation functionality to automatically retrieve the user's current location, ensuring accurate weather data. Additionally, integrated a search feature that allows users to fetch weather information for specific locations other than their own. Incorporated the integration of the OpenWeather API to fetch data and designed a seamless and intuitive user-friendly interface. 	

Snake Game Application Self Project	Dec'24
<ul style="list-style-type: none"> Developed a classical snake game in ReactJS library with Flask framework for backend with user logins and score save features. Designed the backend in Python Flask framework with the frontend in ReactJS library and used sqlalchemy for handling databases Processed user logins and high scores with the use of JWT Token stored in the local storage of the browser in accordance to CORS policy Used PostgreSQL as the database to test the entire application through a variety of scenarios while saving all the relevant data. 	

Search Engine for DSA questions Self project	Aug'25
<ul style="list-style-type: none"> Built a web-based search engine for DSA problems by scraping questions from LeetCode using Selenium and BeautifulSoup. Developed a React.js frontend with a Node.js backend to enhance the search experience and enable efficient information retrieval. Implemented a TF-IDF-based search algorithm in the backend to retrieve the top 20 most relevant questions matching a given query 	

COMPETITION/CONFERENCE

<ul style="list-style-type: none"> Achieved peak ratings of 1692 (Expert) on Codeforces and 2006 (5 stars) on Codechef and solved 700+ problems on Codeforces. Achieved a global rank of 574 in the Educational Codeforces Round 144 (Div. 2) amongst 20000+ participants. Achieved global ranks 7, 82 and 64 in Codechef Starters 62, 68 and 95 respectively among 2000+ division-2 rated contestants.

AWARDS AND ACHIEVEMENTS

<ul style="list-style-type: none"> Achieved an All India Rank of 1434 in JEE Advanced amongst 150000+ participants (in top 1%), conducted by IIT Kharagpur. Achieved an All India Rank of 1038 in JEE Mains amongst 1 million+ participants (in top 0.2%), conducted by the NTA. Qualified Indian National Astronomy Olympiad (INAO) and the IOAA training camp in 11th and ranked in the top 1% in 12th grade. Availed the NTSE Scholarship provided by NCERT, Ministry of Education, Government of India, in 10th grade.
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SKILLS AND EXPERTISE

Skills : Competitive Programming DSA Problem Solving	Programming Languages : C C++ JavaScript Python
Technologies/Software/Libraries : ReactJS Bootstrap Numpy* Pandas* Flask* HTML CSS Git and Github VS Code Cursor NodeJS PostgresQL Tensorflow* Google Colaboratory* (*denotes elementary proficiency)	

COURSEWORK INFORMATION

Computer Science: Algorithms-1* Programming and Data Structures*	Mathematics: Advanced Calculus Matrix Algebra Probability and Statistics
Others: Signals and Systems Digital Electronic Circuits* Digital Communications* Deep Learning* [*Practicum involved]	

POSITIONS OF RESPONSIBILITY

Member at Grimoire of Code, IIT Kharagpur Competitive Programming Club	Dec' 22-Present
<ul style="list-style-type: none"> Played a key role in the success of GoC CDC-Series, a series of five coding contests held in summer 2023. Designed multiple engaging medium-hard level problems, provided detailed editorials, and tested other problems. 	

EXTRA CURRICULAR ACTIVITIES

<ul style="list-style-type: none"> Served as a dedicated Cadet in 3, Bengal Tech Air Squad, for the first two years of college and participated in the annual NCC camp. Secured second place and won a cash prize in Space Quiz organized by the National Students Space Challenge at IIT Kharagpur in 2021.
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