EDUCATION

Year	Degree/Exam	Institute	CGPA/Marks
2022	B.TECH	IIT Kharagpur	8.57 / 10
2018	All India Senior School Certificate Examination	Disha Delphi Public School	92.40%
2016	All India Secondary School Examination	Disha Delphi Public School	10 / 10

PROJECTS

Online Food Order Automation System, *Course Term Project, IIT Kharagpur*   **[Jan 2020 - April 2020]**
- **Co-developed** a web application using Python to automate the set of activities carried out by online food ordering websites.
- **Employed** industrial software development techiniques including preparing SRS, DFD and UML diagrams in the project.
- **Worked** on developing the backend for the web application using Flask, Blueprints, SQLAlchemy and PostgreSQL.
- **Incorporated features** like order placement, menu modification, inventory management and printing receipts.

Listen To This KGP!   **[March 2020 - Present]**
- **Co-developed** a web application that acts as a client and music player to the Facebook group "Listen To This KGP!".
- **Built and published** an **Open Source Python package** with 2 other contributors to extract metadata (artist, album, genre and popularity index) of a song from Spotify API using its YouTube URL.
- **Worked** on scraping raw data from the music sharing group using Facebook Graph API and extracting the relevant song data to be displayed at the frontend of the web application.

COMPETITION/CONFERENCE

General Championship | Data Analytics   **[Feb 2020]**
- Dataset contained the value of electricity consumption of 5 buildings across Delhi-NCR noted in 3 different electrical meters
- Using **exploratory data analysis**, seasonality and average usage was calculated to observe patterns in time series data.
- Used **Fast Fourier transform** to observe the anomalies, causes for them and finding frequency for those anomalies.
- Made use of **Facebook Prophet** and **Holts winter exponential smoothing** for different parts of time series, **stacked** these predictions and used **XGBoost regressor** for optimal prediction of electricity usage.

POSITIONS OF RESPONSIBILITY

Assistant Editor | The Scholars Avenue   **[Jan 2019 - Present]**
- **Currently leading a team of 20** students representing the official media body of IIT Kharagpur.
- **Sponsorship incharge** for the Freshers magazine issue which was read by a **community of over 11,000 students.**
- **Ensured media coverage** inside the IIT campus by writing articles targeting critical issues related to student welfare.
- Interviewed and Interacted with a wide range of professors, professionals and artists who visited the IIT Kharagpur campus.

AWARDS AND ACHIEVEMENTS

- Obtained a **Rank of 8,568** in FB Hacker Cup(Qualifying Round) among **32,699 participants** and **qualified for Round 1.** **[2020]**
- Peak Rated **1634** 3-Star Division-2 Coder on Codechef and Level 7 on InterviewBit platforms.   **[2020]**
- Secured **AIR 984** among 2.3 lakh students in **JEE Advanced** and **AIR 5773** among 15 lakh students in **JEE Mains.** **[2018]**
- Secured an **All India Rank 165** in **Kishore Vaigyanik Protsahan Yojana (KVPY),** conducted by **IISC, Bangalore** **[2017]**
- Awarded **National Talent Search Examination (NTSE) Scholarship** by **NCERT, New Delhi.** **[2016]**

SKILLS AND EXPERTISE

Languages/OS: C, C++, Python, JavaScript, UML, Verilog, Windows, Ubuntu.
Tools/Libraries/Databases: C++ STL, Flask, Git, Node, React, SQLAlchemy, PostgreSQL, Tensorflow, Keras, scikit.

COURSEWORK INFORMATION

Completed: Algorithms-I*, Programming and Data Structures*, Software Engineering*, Probability and Statistics, Formal Languages and Automata Theory, Discrete Structures, Switching Circuits and Logic Design*,Signals and Networks*.
Ongoing: Computer Architecture and Organization*, Compilers*, Algorithms-II, Cryptography and Network Security,
(*marked courses have a Laboratory Component as well)

EXTRA CURRICULAR ACTIVITIES

- Volunteer at **National Service Scheme(NSS) - IIT Kharagpur [2018-2020]** . Taught the students of a primary school, conducted regular surveys and also lead the cleaning team in Gholgoria village, West Midnapore.
- Part of the **Open Source** Team and **Data Analytics** Team at Madan Mohan Malviya Hall of Residence, IIT Kharagpur.
- **Fédération Internationale des Échecs(FIDE)**-Certified Chess Player since 2012.

!self declaration by the student