



## EDUCATION

Year	Degree/Exam	Institute	CGPA/Marks
2022	M.SC(5YR)	IIT Kharagpur	7.95 / 10
2016	All India Senior School Certificate Examination	Resonance International School	88.4%
2014	All India Senior School Certificate Examination	Resonance International School	10 / 10

## COURSEWORK INFORMATION

Programming and data structure, Design and analysis of algorithm, Object oriented programming, Machine learning foundation and application, Neural networks and deep learning, Improving deep neural networks: hyperparameter tuning, regularization and optimization, Structuring machine learning projects.

## SKILLS AND EXPERTISE

## Programming Languages-

**Expert:** C, C++      **Familiar:** html, css, javascript, python

**Libraries:** panda, numpy, scikit-learn, matplotlib, opencv

## COMPETITION/CONFERENCE

## Google Code Jam|2020

• Qualified for Round 1 and secured a rank of 2563 in round 1A of Google Code Jam, 2020 out of more than 32000 participants.

## Competitive Programming

• A peak rating of 1643 on Codeforces (@ujj\_wal).

## AWARDS AND ACHIEVEMENTS

- Secured **All India Rank 1305** in **Joint Entrance Examination Advance 2017** among 200000+ students.
- Secured **All India Rank 125** during 2016, in National Level Science Talent search Examination (**N.S.T.S.E.**) conducted by the Unified Council.
- Secured **All India Rank 1** in mathematics and overall **All India Rank 1180** during 2014 in National Level Science Talent search Examination (**N.S.T.S.E.**) conducted by the Unified Council.
- Recipient of Innovation of Science Pursuit for Inspire Research (INSPIRE) Scholarship.
- Secured **International Rank 195** and **2012** in International mathematics olympiad and **International Rank 122** and **537** in national science olympiad conducted by **Science Olympiad Foundation** in year-2013, 2014.

## PROJECTS

## VIS-GRAPH

- Developed a desktop application graph editor, tool to draw and analyse graphs.
- Prominent graph algorithm integrated like shortest path problem, graph planarity check, maximum matching, minimum vertex cover, maximum independent sets.
- Implemented addition, deletion, colouring and moving of Vertices and Edges, opening and saving the graph
- Documentation done using prominent UML diagrams

**Technology used-** python (backend), pyqt5 (frontend), staruml

## INVENTORY

- Was solely responsible for building a Deep Neural Networks model (from scratch) to create inventory management system giving over 88% accuracy.
- Used the last 3 years of sales data for a restaurant as training data, so as to identify the sales pattern of each season.
- Implemented dropout normalisation to reduce overfitting, Adam optimization algorithms for parameter update.

**Technology used-** Python, pandas, Numpy

## Web-app

- Developed blog writer using django framework (backend), HTML, CSS, Javascript (frontend)
- Cloned various websites like netflix, apple using HTML, CSS, Javascript

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#### EXTRA CURRICULAR ACTIVITIES

- Member of the organizing team of **KHOJ**- AZAD Hall's treasure hunt competition for freshers.
  - Participated in Disaster management Training Program and Cleanliness Drive Organised by NSO Health and Fitness,IIT Kharagpur.
  - Was ranked 2nd in **Inter Hall Case Study** IIT Kharagpur during 2019.
  - Contributed in winning Sports General Championship 2017-18 for Azad hall,by participating in **Chess**.
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