

Academic Qualifications

Year	Degree/Certificate	Institute	CPI/%
2018 - Present	B.Tech	Indian Institute of Technology, Kharagpur	8.11/10
2018	CBSE(XII)	Kendriya Vidyalaya No.2 Salt Lake	95.25%
2016	ICSE(X)	St. Mary's Orphanage Day School, Kolkata	97.80%

Internships

- **FIELD VIEWERS (Chicago, USA)** (April'20 - July'20)
 - Establishment of **WebRTC platform** in a Website and then installed SSL certificates using **NodeJS** to make it secure.
 - **Developed** a Basic **Android Video Chat App** which was deployed on the **Heroku server** to connect from anywhere and also using **OpenTok-Python-SDK** and **OpenTok-PHP-SDK**, the OpenTok Video Call sessions were established.
 - **Modified and integrated** the functionalities of **three different Open source Android App projects** into one single app according to the need and purpose which has the ability to connect to the websites or any other device.
- **OkCredit (Bangalore, India)** (April'20 - June'20)
 - Handled **BigData**, using **SQL** from **BigQuery** followed by **Data Preprocessing** to find **meaningful insights** from it.
 - Applied **Hidden Markov Model & Viterbi Algorithm** to **predict** the app event sequences based on data of **18000 users**.
- **ZOOP.ONE (Pune, India)** (May'20 - July'20)
 - Performed **Blur, Glare, Image Forgery and Face Spoof Detection** on Images and Videos of different Cards/Faces with an **accuracy** of around **98%** each using **OpenCV** module and then deployed all these features in the app by **developing** an **API** using **Flask**. Also applied these features on network **Live Streaming** by using **Socket Programming** using **ZeroMQ**.
- **Embibe (Bangalore, India)** (June'19 - July'19)
 - I was made the **Content Team Manager** to lead my Content Development Team consisting of 10 other members.
 - Used **Advanced Excel** and **SQL**, and also applied basics of **Python** to ease the tasks for searching and storing data.

Projects

- **Indian Institute of Management(IIM) Calcutta** (March'20 - July'20)

Principal Investigator: Prof. Indranil Bose (Department of Management Information Systems, IIM C)

Project Title: **Data Analytics of Car Models using Computer Vision, Natural Language Processing & Audio Analysis**

 - **Data Collection** done on Indian Car Brands with all its car models including their official YouTube Channels.
 - Then by using **Selenium & BeautifulSoup** in **Python**, I executed a code which **automatically extracted** all the data present in a standard YouTube video webpage from around **1000 videos**, then stored and cleaned it in **Advanced Excel**.
 - Applied **Neural Networks** training to **detect** and **identify** the respective **car brand logos** on their advertisement videos using **YOLO v3** and also identified that for how much time each person is being displayed in that video, i.e, **screen time**.
 - **Extracted Speech** from each Video by applying **Speech Recognition & FFMPEG**, then I did the **Sentimental Analysis** of all those speeches and the Youtube Comments extracted previously to determine the overall **polarity** of each video.
- **Indian Institute of Management(IIM) Kozhikode** (Dec'19 - Jan'20)

Principal Investigator: Prof. Shahid Abdulla (Department of Information Systems, IIM K)

Project Title: **Reinforcement Learning on Tic-Tac-Toe using R programming**

In the original R implementation of **Nicholas Proelloch's R Library** it was unable to beat a human opponent's simple move. So, I improved its performance by doing **Data Analysis** to change the Reward Structure of **4,06,541 possible moves**, using **Advanced Excel techniques** and **Visual Basic for Applications**, that incentives us not only to win, but also to prevent a win of the rival.

Technical Skills

- **Programming Languages:** Python, R, SQL, C++, Java, C, HTML, CSS, Javascript, OpenCV, NodeJS
- **Software and Libraries:** Flask, Django, Librosa, SpeechRecognition, Selenium, Tensorflow, NLTK, Advanced Excel, BigQuery

Relevant Courses

Programming and Data Structures	Probability and Statistics
Machine Learning(Coursera)	Linear algebra and Differential Equations
Become a Computer Vision Expert(Udacity)	Neural Networks and Deep Learning(Coursera)
The Complete Python Masterclass(Udemy)	Natural Language Processing(Coursera)

Positions of Responsibility

- **Owner and Compiler, Sharp Cookie** (Aug'19-Oct'19)

It was **my Startup** in which I sold my **own Authored books** to every fresher of my college so I had managed everything including the **Product Marketing, Distribution** in Large Scale by which I was able to Successfully sold **915 books** worth **3 lacs** revenue.
- **Secretary Dramatics & Dance Subcommittee, Technology Student's Gymkhana** (Mar'19-Mar'20)

I was Elected by the whole student community and won by a **margin of 798 votes**. I **Conducted&Managed** all the General Championship Events within **70%** of the total budget worth **5 lacs**,allotted to me so I was considered for**Best Management skills**.

Extra-Curricular Activities

- **Qualified the Flipkart GRiD 2.0 - Robotics Challenge** by securing a **rank** of **237** out of 6261 participants across India.
- **Qualified** the first round of **Overnite (Coding Competition** in Kshitij 2019 - Tech Fest)
- Secured **2nd rank** in **Group Dance Competition** in Carpe Diem, Annual Fest of IIM CALCUTTA.