



EDUCATION

Year	Degree/Exam	Institute	CGPA/Marks
2023	M.TECH Dual Degree 5Y	IIT Kharagpur	9.05 / 10
2018	Indian School Certificate	Hill Top School	94%
2016	Indian Certificate of Secondary Education	Hill Top School	96.8%

INTERNSHIPS

Software Development Intern | Microsoft | Noida

May'22 - July'22

- Integrated **Zooming** and **Panning** feature into the OnePlayer library used in MS **Teams**, Stream App and Office Android for Video Playback
- Enriched **User Experience** by executing **4** solutions from Fit to Zoom to continuous Zooming thereby impacting **100+ million** users
- Modeled an **Experiment Control Settings** Flag to toggle the functionality of the feature and control rolling out of feature during release
- Compared user experience across **3 OTT** platforms - YouTube, Netflix and MX Player and developed **Test Plan** and **Telemetry** functionality

Software Development and NLP Intern | ZS Associates | Pune

Jan'22 - April'22

- Engineered a Design of Experiment for a system to monitor the health status of patients after analysing health data from motion sensors
- Fabricated a **Data Simulator** to generate **Gyroscopic** and **Accelerometer** data from WUSTL EHMS 2020 Dataset and connect to IoT **Core**
- Developed a complete pipeline to send IoT data from generator to AWS IoT **Analytics**, AWS **Kinesis** and **QuickSight** via **MQTT** Protocol
- Established a real time dashboard to monitor patients' health and send alarms in case of anomalies using **Simple Notification Service**
- Assembled a **Knowledge Graph** by designing a pipeline including **Orchestrator**, **Text Extractor**, **Entity Extractor** and Graph Loader on SQL

PROJECTS

Software Development and Deep Learning Project | UCL London

Apr'21 - Present

- Pioneered a platform to integrate effects of influential content from Twitter, FT News and TikTok with time-series stock data of companies
- Established a website on ECFRI to serve **20+** universities to develop algorithms using **NLP** for targeted company sentiment analysis
- Scrapped **1000+** tweets using snsrape and generated sentence embeddings using **FinBert**, **SBert**, **GloVe** and **Google Universal Encoder**
- Engineered an **LSTM** Model to acquire an enhanced R2 score of **0.98** and RMSE of **2.34** using Technical Analysis on S&P 500 ES Data

Resume Parser and Maker | Algozenith | Nagpur

Mar'21 - May'21

- Executed an Applicant Tracking System for the company and an efficient framework to generate **1000+** CVs in PDF format automatically
- Designed a **Resume Parser** and extracted **23** varied fields including Names, Emails etc. from **500+** CVs, thereby saving **1000+** person-hours
- Conceptualized a **Linear Time** algorithm to extract sections comprising Experience, Achievements, Publications, Skills and Coursework
- Procured **1000+** professional and technical resumes within seconds after transforming user entered information in JSON using NLP

COMPETITION/CONFERENCE

Computer-Supported Collaborative Case Study Analysis | MAALIC Symposium 2021 | Malaysia

Aug'21

- Built a live platform to quantitatively analyse online group discussions on Whatsapp and produce individual performance scores instantly
- Scrutinised **50+** Whatsapp Discussion text files to produce **10** performance features using NLTK and RE, thereby saving **100+** person-hours
- Incorporated features like **Sentiment** Analyser, **Emoticon** Extractor, Message **Classifier**, **Wordcloud**, and Extractive **Summarization**
- Generated **200+** analysis reports within minutes highlighting the Grading System built on pedagogical performance parameters

Runners-up | Intel AI Entrepre-Neural - A Deep Learning Competition

Apr'21

- Modeled **Autismo** (as a Web App) - A Toddler Autism detection model using both facial images and a screening test for diagnosing Autism
- Obtained an accuracy of **98%** and **88%** by deploying **RFC** for classification using question set and by using **VGGFace** Model, respectively
- Reduced the total inference time from **61.77** seconds to **45.764** seconds and improved autistic recall from **0.83** to **0.92** by using **OpenVino**

AWARDS AND ACHIEVEMENTS

- Competitive Coding** - Active **Expert** on Codeforces with a rating of **1654** and a **5 star** coder on Codechef with max rating of **2103**
- Google KickStart** - Global rank of **351** in Round C '21, **561** in Round B '22, **617** in Round D '22, **691** in Round C '22 and **784** in Round E '22
- Adjudged the **best All-Round** student of Class 12 and received the **TATA Hitachi Award** by TATA MOTORS Limited, Jamshedpur
- Attained **Zonal Rank- 3** and **International Rank- 77** in NSO 2018 and **Zonal Rank- 2** and **International Rank- 92** in IMO 2018 by SOF
- Amongst the top **10%** students of **1400** first years to get a **Department Change** from Manufacturing to Chemical Engineering

POSITIONS OF RESPONSIBILITY

Design and Media Head | Spring Fest 2021

Jun'20 - Mar'21

- Ensured delivery of digital and print media for publicity in **800+** colleges, **550+** corporates, and a media reach of **2,70,000+ subscribers**
- Co-led** a **2-tiered** design team of **17** members; designed **20+** digital posters, theme for website and oversaw the creativity of **70+** other
- Created a two-themed website for the online fest which subsequently generated over **2,00,000** views and **25,000** registrations

Chief-Editor | Awaaz, Student Media Body | IIT Kharagpur

Jun'21 - Jun'22

- Pioneered the first coloured newsletter design and conducted **50+** fundraisers aimed at raising INR **1 Crore+** during the Covid pandemic
- Developed and published insights regarding issues like mess problems, elections, placements, internships, and general championship

SKILLS AND EXPERTISE

Programming Languages: C++ | Python | Java | Kotlin | C | **Libraries and Tools:** Android | HTML | CSS | JavaScript | Scikit-Learn | Pandas | Latex | Numpy | PyTorch | TensorFlow | Keras | NLTK | Spacy | RE | OpenCV | Matplotlib | SeaBorn | Django | GitHub | SSH | **Courses:** Programming and Data Structures | Differential Calculus | Data Analytics | Machine Learning Foundations and Applications | Deep Learning Foundations and Applications | Artificial Intelligence Foundations and Applications | Probability and Statistics | Integral Calculus | Transform Calculus | Algorithms - 1 | Natural Language Processing | Artificial Intelligence for Manufacturing | Algozenith (DSA) | OOPS