



EDUCATION

| Year | Degree/Exam | Institute | CGPA/Marks |
|------|---|--------------------------------------|------------|
| 2021 | M.SC(5YR) | IIT Kharagpur | 7.60 / 10 |
| 2016 | Senior School Certificate Exam.(AISSCE) | Central Board Of Secondary Education | 92% |
| 2013 | All India Secondary School Exam.(AISSE) | Central Board of Secondary Education | 10 / 10 |

INTERNSHIPS

DATA ANALYST | SAPIO ANALYTICS PVT. LTD.

[Apr-May'20]

Worked on Health Care dataset to classify and predict the appearance time of malignant cancerous cells

- Analysed large data for **binary classification** of malignant cells and predicting the appearance time for malignant cells
- Visualized the **correlation** between the features using **heat maps** to omit the features having similarity index above 0.8.
- Reduced the features and devised **Ensemble Modelling** to enhance overall performance by minimizing the **noise, bias** and **variance**.
- Minimized the **type-2 error (False-Negative)** and improved the classification accuracy to **94%**with **F1-score** of **0.93**

PROJECTS

ALGORITHMS FOR TEXT ANALYSIS| COURSE PROJECT

[May-June'18]

Guide: Prof. Pawan Goyal , Department of Computer Science and Engineering , IIT Kharagpur

- Made a **spelling** and **grammar correction** programs using the **edit distance** algorithm for word correction in sentences
- Devised a **Probabilistic Language Model** biased towards the given pre-trained data to predict the upcoming word

NANOMATERIALS AND NANOCLUSTERS| MSc. PROJECT

[Jan-Mar'20]

Project: Unlocking the Synthesis, Characterisations and Applications of different Nanomaterials

- Surveyed Literatures for **constructing synthetic schemes** for characterisations and applications of Nanoclusters(NCs).
- Prepared Performance report and presentation slides of the work performed and presented in Lab. &Department.

COMPETITION/CONFERENCE

INTER-HALL DATA ANALYTICS | IIT KHARAGPUR

[March 2020]

- Forecasted electricity consumption** meter readings of upcoming 4 months by using of past years' data.
- Applied **ARIMA model** after first order differencing where p and q were found using **ACF** and **PACF curves**.
- Converted to regression problem by creating new features and applied **Ridge** and **XGBoost** regression models
- Results were compared for all validation sets multiple times and the best model was used for forecasting.

SKILLS AND EXPERTISE

- Programming Languages:**C | C++ | Python
- Platforms and Softwares:**Windows | LINUX | MS-Excel | MS Powerpoint | SOLID WORKS | AUTOCAD

AWARDS AND ACHIEVEMENTS

- Secured a SGPA of **9.25** in semester 9 enrolled in 5Y Integrated MSc. Course in the Department of Chemistry.
- Secured a rank of **8205(top 8%)** in JEE-Advance 2016 among **1.1million** students appearing for JEE-Mains 2016.
- Awarded **Certificate of Merit** by Children's Edu. Trust for Excellent Performance in All India Talent Search Exam.

COURSEWORK INFORMATION

| | | | |
|----------------------------------|------------------------|--------------------------|----------------------------|
| •Programming and Data Structures | •Differential Calculus | •Computer Aided-Design | •Molecular Thermodynamics |
| •Probability and Statistics | •Deep Learning | •Computer Graphics | •Molecular Spectroscopy |
| •Partial Differential Equations | •Machine Learning | •Computational Chemistry | •Solid State Chemistry |
| •Integral Calculus | •Engineering Drawing | •Quantum Chemistry | •Group theory for Chemists |

POSITIONS OF RESPONSIBILITY

Mentor

- Mentored **4 students** of **2nd year** IIT Kharagpur in Academics, life skills, Time Management in a Voluntary Student Group.
- Conducted Open **Doubt Clearing Sessions** in Chemistry and Basic EC for first year students of IIT Kharagpur.

Event Coordinator| Humanitarian

- Managed Accounts team** and team for Cultural programmes in the **2nd Largest Rath Yatra** on the globe for **3 years**.
- Organised Debates**, GDs, Dramas among **110 students** coming from **15 institutes** including **2IITs** and **7NITs**.
- Conducted Seminars** for 1st year Btech and Mtech Students on '**THE ART OF SELF-MANAGEMENT**' based on **Gita**.

EXTRA CURRICULAR ACTIVITIES

- An active member of **V.O.I.C.E.** which aims at the **Character building** and **Personality development**.
- Has been an active member of National Service Scheme (**NSS**) for **2 years[2016-'18]** at IIT Kharagpur.
- Social Services:-** Set up free **eye check-up Camp** and Physician consultation in Ayma village nearby IIT KGP.
- Disaster Management Workshop:-** Learned to develop rescue techniques and first aid methods for emergency situation.