



## EDUCATION

Year	Degree/Exam	Institute	CGPA/Marks
2023	M.TECH Dual Degree 5Y	IIT Kharagpur	8.12 / 10
2017	Higher Secondary Certificate (HSC)	Dinanath Junior College, Nagpur	89.64%
2015	Secondary School Certificate (SSC)	Vivek Mandir High School, Gondia	94.80%

## INTERNSHIPS

### Business Analyst Intern | Orange Health Diagnostics Lab | Bangalore

( May'22 - Jul'22 )

**Overview:** Developed **logistics trackers** to facilitate efficient **inventory management** for the Health-tech start-up and diagnostic laboratory

- Built 2 live dashboards using **PostgreSQL** to monitor **real-time inventory** by integrating the supplier database with the company's data
- Highlighted 3 key synergy issues by identifying discrepancies between supply and consumer demand for many of the medical equipments
- Provided important insights from dashboards and suggested 2 recommendations which will be used in **decrement** in total inventory costs

### Machine Learning and Data Analysis Intern | Assetplus Consulting | Noida

( Jan'21 - Mar'21 )

**Overview:** Worked on a pilot project with an **Indian Electric Utility** which can allow users to pay electric bills online using mobile app

- Developed a Learning model to detect digits from the readings of electric meter images by analysing **10,000+** images of electric meters
- Implemented **Seven Segment method** to classify digits from the meter readings and achieved **78%** accuracy on the testing images data
- Labelled training images and trained a custom **YOLOv3** and **YOLOv4** models for **1,000+** iterations with **10,000+** training images dataset
- Localized the part of the meter images data containing the required readings and achieved good accuracy of **0.86 mAP** from the model

### Data Analyst Intern | Indian Institute of Management, Bangalore | Bangalore

( May' 20 - Jul' 20 )

**Overview:** Understood how different ideas like '**swaraj**', '**swadeshi**' and '**ahimsa**' have emerged over time and different places in India

- Performed exploratory data analysis on historical text dataset containing over **0.3+ Million** article titles using **NLTK** and **gensim libraries**
- Achieved f-score of **0.76** on a highly imbalanced dataset by implementing classification models to classify article titles into two categories
- Formulated a frequency based trending word algorithm to find **1500+** trending words, phrases and n-grams for any given place and year
- Identified the most popular ideas in general public sentiment from 1800 - 1950 by constructing a **similarity matrix** using cosine similarity

## PROJECTS

### Model Comparison and Multicollinearity Detection | RTSM Term Project | Prof. Buddhannanda Banerjee, IIT Kharagpur

( Oct'20 )

- Detected multicollinearity in the data using correlation analysis and **Variance Inflation Factor (VIF)** scores to identify important features
- Applied PCA, Lasso & Ridge Regression & performed error analysis using **qqplots and KS test** for model validation on Big Mart sales data
- Concluded that regression models were unable to capture non-linear relationships in the data and **XGBoost** gave best **R<sup>2</sup> value of 0.85**

### Social Media Sentiment Analysis | Self-project

( May'21 )

- Performed **NLP** based Tokenization, Lemmatization, vectorization, and processed twitter data in Machine understandable language
- Modeled **Naive Bayes classifier** to train the assigned vectors and achieved accuracy of **95%** in classifying tweets as positive or negative

## SKILLS AND EXPERTISE

**Programming Languages &Skills:** C, C++, Python, SQL, Natural Language Processing (NLP), Machine Learning (ML), Deep Learning (DL)

**Software and Libraries:** Google Data Studio, Tableau, MsExcel, scikit learn, keras, tensorflow, NLTK, labellImg, Anaconda, statsmodels

## COURSEWORK INFORMATION

Applied Data Science with Python Specialization, Coursera | SQL for Data Science, Coursera | Programming and Data Structures | Probability and Statistics | Regression and Time Series Model | Data Analytics | Machine Learning Foundations and Applications | Derivatives and Risk Management | Financial Risk Modelling | Investment Management | Corporate Finance And Financial Accounting | Financial Analytics

## POSITIONS OF RESPONSIBILITY

### Core Organising Team Member, Kshitij'20 | IIT Kharagpur

( Aug'19 - Jan'20 )

- Part of the **23**-member Core Team of the techno-management fest responsible for Sponsorship, Publicity and Event management
- Solely garnered **INR 4.75 lakhs** worth net sponsorship amount and alumni contribution from regions of Mumbai, Kolkata and Bangalore
- Led a team of **42** Campus Affiliates and **17** Campus Representatives responsible for the publicity of the fest across various colleges of India
- Organised event **Robowars** which is one of the flagship event of Kshitij with total participation of **22** teams from different colleges of India
- Conducted Cascade at Nagpur, Bhubaneswar that witnessed an increase in **50%** participation of college students from Nagpur in Kshitij'20
- Oversaw the Web Development Summer Training Programme conducted for freshers, witnessing a total participation of **200+** students

### Kshitij Campus Affiliate, Kshitij'19 | IIT Kharagpur

( Sep'18 - Aug'19 )

- Part of the **40** - Member Team of the symposium which is responsible for publicity of the fest and final management of all its events in KTJ
- Responsible for the in-house publicity of the events of Kshitij 2019 among the **12,000** residents at the institute and managed Workshops
- Publicized Kshitij 2019 by visiting various colleges of Kolkata, Bhubaneswar, Nagpur and also on various different social media platforms

## EXTRA CURRICULAR ACTIVITIES

- Social:** Worked for the betterment of poor villages surrounding the campus area of IIT Kharagpur as a part of the team NSS Unit-11
- Cultural:** Part of Gold Winning Open IIT Nukkad Team of Azad Hall of Residence, IIT Kharagpur during academic session 2018-19
- Cultural:** Secured Gold in Choreography of Azad Hall of Residence, IIT Kharagpur in General Championship Social and Cultural, 2018-19
- Sports:** Part of Gold Winning Cricket Team of Azad Hall of Residence, IIT Kharagpur in General Championship Sports and Games, 2018-19