

## ACADEMIC QUALIFICATIONS

Year	Degree/Certificate	Institute	CPI/%
2020 - Present	M.Tech in Industrial & Management Engineering	Indian Institute of Technology, Kanpur	9.23/10
2013 – 17	B. Tech in Mechanical Engineering	National Institute of Technology, Karnataka	7.54/10
2012	Higher Secondary Education   Kerala State Board	Marthoma Higher Secondary School, Kerala	95.75%
2010	Secondary Education   CBSE	Peevees Model School, Kerala	9.8/10

## WORK EXPERIENCE

### Continuous Improvement Engineer & Reliability Coordinator | Cargill (May'17 – Jun'19)

- Developed **live dashboards** in **PI ProcessBook** to monitor plant **KPIs** for multiple departments and levels of organization
- Analysed process variations in the production in multiple departments using **Minitab** statistical package
- Trained **100+** plant employees and assisted in deploying the **Stable Ops** program in departments of Utility, Wetmill & Refinery
- Created an **automated Excel tool** that generate monthly downtime report to save manual managerial tasks
- Managed inventory levels of Refinery & Maltodextrin using **Reorder Level Stock** policy considering of lead time

## INTERNSHIP

### Multimodal Transportation Optimization | Gomazon Technologies (May'17 – Jun'19)

- Minimize the overall cost to transport 8 goods from source to destination [4 countries/cities, 16 ports, 4 tools and 50 routes]
- Identified the **relevant assumptions** to **transform** the real-world problem to a simpler case to be solved as **MILP**
- Formulated the objective function and constraints in terms of various costs and time and solved using **Python** and **CPLEX**

## COURSEWORK & SKILLS

**Relevant Courses** **Statistical Modelling for Business Analytics | Data Mining & Knowledge Discovery | Probability & Statistics | Operations Research for Management | Introduction to Computing | Marketing Research**

**Skills** **Python** (NumPy, Pandas, Scikit, Matplotlib, Scikit-learn, Stat models, Regex), **SQL**, **HTML**, **Minitab**, **Power BI**

## KEY ACADEMIC PROJECTS

**Statistical Modelling for Business Analytics** **Red Wine Quality Prediction using Multivariate Regression Analysis** (Aug'21 – Oct'21)

- Performed multivariate regression analysis to predict red wine quality using 12 variables & 1599 rows
- Checked for **correlation**, **multicollinearity** and verified **OLS assumptions**
- Identified **heteroskedasticity** using **Breusch-Pagan test**, corrected consequences using **robust SER**
- Adjusted R<sup>2</sup>** without robust error and with robust error was 0.3567 & 0.381 respectively
- Statistically inferred** significant variables were alcohol, volatile acidity, density, chlorides, and pH

**Marketing Research** **Analyzing efficacy of eLearning at IIT Kanpur** (Feb'21 – May'21)

- Conducted a **Problem Identification Research** to analyze & identify salient features of eLearning at IITK
- Formulated **Management Decision & Market Research problems, Research Questions, & Hypotheses**
- Designed a **Single cross-sectional descriptive research**, dynamic survey form using Scaling techniques
- Collected **200+** sample data (primary) using **online surveys, focus groups & personal interviews**
- Carried out **Exploratory, Descriptive Research** in **SPSS** on the data (**Convenience Random Sampling**)
- Analyzed the data using statistical tests (**One /Two Sample t-test, Chi squared test**) to verify hypotheses
- Inferred** students preferred to learn qualitative subjects over quantitative subjects in eLearning

**Data Mining and Knowledge Discovery** **Quora Question Pair Similarity – NLP Text Mining** (Sep'20 – Dec'21)

- Developed a **binary classification** model to Identify duplicate questions asked on Quora
- Performed **EDA** and preprocessed the text data by **cleaning, stemming** and **stop words removal**
- Engineered** string matching and **term frequency-inverse document frequency-based features**
- Applied 3 classification algorithms with **Precision and Log loss** as the performance comparison metric
- Identified **XG Boost** with **hyperparameter** performed better than **Logistic Regression & SVM**

## POSITIONS OF RESPONSIBILITY

**Senior Placement Coordinator IME, IITK** Working towards long term **industrial collaboration** with department (Jul'21 – Present)

**Senator [Postgraduate], SC, IITK** Act as the voice of MTech students (2020-22), at the Student's Council (Jul'21 – Present)

**Junior Placement Coordinator, IME, IITK** Organized internship drive for a batch of **21** students. (Sep'20 – Jun'21)

**Joint Convenor [Beach Events], NITK** Led a team of **40+** members and gathered **₹30000+** in **sponsorship** (Aug'17 – Apr'21)

## SCHOLASTIC ACHIEVEMENTS

- Ranked **588** in **GATE 2020 (ME)** among the 1,37,826 applicants
- Ranked **36<sup>th</sup>** in **KEAM Examination** among the 1,00,000+ applicants
- Ranked **5209 (AIR)** in **JEE Mains 2013** among the 10,00,000+ applicants

## CERTIFICATIONS

- Analyze Data with SQL** | Codecademy
- Power BI Essentials** | LinkedIn Learning