

SHOBHIT TIWARI

MTech (Industrial and Management Engineering) IIT Kanpur

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Academic Details

Year	Degree	Institute	CPI/%
2021-2023	M.Tech, Industrial & Management Engineering	IIT Kanpur	6.75*
2012-16	B.Tech, Mechanical Engineering	BIET Jhansi	66.67%
2012	Intermediate UP Board	LJP SVM Inter College	76.4%
2010	High School UP Board	LJP SVM Inter College	81.5%

Academic Projects

Course: **Statistical Modelling for Business Analytics** Guide: **Dr. Devlina Chatterjee (IITK)**

Project1: **Predicting the chance of admission in a college using multi linear regression model**

- For this Project Data is taken using Kaggle.
- Seven different independent variables for student performance is taken and Chance of admit in the college using **Multi Linear Regression**
- Multicollinearity test between different variables and **outliers test** is done.
- Several Models build and best one based upon **higher R²** is chosen.

Course: **Statistical Modelling for Business Analytics** Guide: **Dr. Devlina Chatterjee (IITK)**

Project2: **Predicting the chance of admission in a college using logistic regression**

- For this Project Data is taken using Kaggle.
- Data contain nearly 400 observation and three independent variables are taken GPA, Rank & GRE Score.
- Sensitivity, Specificity analysis** are done and best model depending on accuracy is chosen.
- This is a binary Regression, dependent variable come between Probability 0 and 1.

Course: **Applied Machine Learning** Guide: **Dr. Veena Bansal (IITK)**

Project: **Amazon Alexa Review (NLP)**

- Performed sentiment analysis on **amazon Alexa customer reviews**.
- Performed **EDA** and created a data frame with positive reviews and a data frame with negative reviews.
- Created a **Word Cloud** for positive and negative reviews., Performed **data cleaning**, and removed punctuations and Stop words.
- Applied **Naive Bayes** and **Logistic Regression** method.
- The accuracy of Naive Bayes was 92.5% and Logistic Regression was 94.9%.

Course: **Marketing Research** Guide: **Dr. Shankar Prawesh (IITK)**

Project: **An Analysis of Customer Satisfaction towards JIO SIM**

- Sample of 127 respondents of different age groups, occupations, and locality was collected and respondents were asked questions related to network quality, data plans, and internet speed of Jio sim.
- Data collected is cleaned and then **pretested** and **hypotheses** were performed.
- One tail test on Network Quality, Internet Speed, and Data Plan.
- Chi-Square Tests** on gender vs satisfaction, occupation vs satisfaction, age vs satisfaction, and area vs satisfaction.
- Results showed the various factors on which Customers' Satisfaction with Jio depends.

Internship

Harvesting India Private Limited

(May'22-July'22)

Project: **How to onboard and retain maximum number of KCAs**

- Data related to Company's 9 services provided to the Farmers is extracted from different sources and government sites.
- An Analysis on Farmers Monthly income is conducted across different states of India and they are properly segmented based on their **income**.
- How Farmers are utilizing soil testing, better crop advisory and which states farmers used these services most relative to other is found out.
- Different types of crops for every season is analyzed and using the different type of plots in excel and they are **properly segmented** based on nutrients required in soil by using the data from various sources.
- MS Excel, Power BI** tool is used for proper visualizing the Data by plots like **bar, pi, 2 line charts** for comparing with average value across different states in India

Coursework and Skills

Relevant Courses Statistical modelling for Business Analytics | Applied Machine Learning | Marketing Research | Probability & Statistics |

Operation Research For Management | Advance decision Models | Consumer Behavior | Supply Chain Management*

Skills Python (NumPy, Pandas, Matplotlib, Seaborn, Sklearn, nltk) | SQL | Power BI | Tableau | MS Office (Excel, Word, PowerPoint)

Certificate Machine Learning, Data Science and Deep Learning with Python (Udemy)

Work Experience

Chegg India Pvt. Ltd. (As A freelancer)

- Worked as **Mechanical Engineering** subject expert and cleared student's queries in that domain all around the world.
- Solved various different types of questions of mechanical engineering subjects.
- Guided group of new joiners.

Achievements and Position of Responsibility

- Secured **AIR 288** among **1.37 Lakh** Students in Mechanical Engineering **GATE 2020** with **99.79** percentile

Teaching Assistant for the Course MBA 606A (Economic Analysis For Management) in DIME IIT Kanpur

- Conducted doubt clearing sessions and contributed to discussions for improving the course content and delivery. * (Ongoing)