

## ACADEMIC DETAILS

YEAR	DEGREE	INSTITUTE	CPI/%
2021-2023*	M.Tech.(Industrial & Management Engineering)	Indian Institute of Technology, Kanpur	7.45**
2017-21	B.Tech. (Textile Engineering)	U.P. Textile Technology Institute, Kanpur	8.58
2016	Class XII (CBSE)	SRD SR SEC SCH Lalitpur, Mau	88.6%
2014	Class X (CBSE)	SRD SR SEC SCH Lalitpur, Mau	87.4%

\*\*till 2<sup>nd</sup>sem | \*Expected

## INTERNSHIP

## Market Research Analyst, Harvesting India Private Limited

(May'22 – July'22)

An Analysis of Soil Testing Facilities and Agrochemical Industry of India

- The whole analysis was divided into three major sections consisting of subsections.
- Analysis of Soil Testing Laboratories and facilities in India; Soil Testing Facilities concerning Soil Health Card (SCH) Scheme; Agrochemical Industry in India.
- Data was collected from various data sources including government databases, private data sources in the form of flat files, and CSV files.
- Checked for missing values, cleaned, and verified the relevance of data.
- Excel, Power BI, and some web scrapping were used for data collection, cleaning, manipulation, and visualization.
- Bar plots, column charts, pie charts, maps and line charts were used to visualize data.

## ACADEMIC PROJECTS

Credit Card Fraud Detection (Applied Machine Learning)

(Feb'22 – April'22)

- Performed **EDA** and Counted the number of fraudulent and non-fraudulent transactions.
- Plotted **heatmap**, checked for **skewness**, and Scaled the attributes.
- Concatenated Scaled Columns, creating sub-samples, and Performed **dimensionality reduction**.
- Applied **Logistic regression**, **KNN**, **Decision Tree Classifier**, **SVM**, and **Random Forest Classifier**.

Amazon Alexa Review NLP (Applied Machine Learning)

(Feb'22 – April'22)

- 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 **Stopwords**.
- Performed **Count vectorization**.
- Applied **Naive Bayes** and **Logistic Regression** method.
- The accuracy of Naive Bayes was **92.5%** and Logistic Regression was **94.9%**

Small Image Classification using CNN (Applied Machine Learning)

(Feb'22-April'22)

- Performed classification of small images on cifar10 dataset from Tensorflow Keras datasets.
- Loaded the dataset into train and test and converted the 2D array of classes into 1D.
- Normalized the images to a number from 0 to 1.
- Build a simple ANN for image classification with sparse categorical cross entropy as loss function and run 5 epochs.
- Accuracy at the end of 5 epochs is 49%.
- Build a CNN model and ran it for 15 epochs.
- Accuracy at the end of 5 epochs with CNN is 70% and at the end of 15 epochs is 83%.

## SELF PROJECT

Time Series Analysis on Airline passenger data

- Predicted Air Passengers travel for next 10 years analyzing previous month wise data from 1949 to 1960 using time series techniques
- Decomposed Time series into its component to analyze **Trend**, **Seasonality**, and **noise**
- Checked **Stationarity** using **Rolling Statistics test & ADF-test (Augmented Dickey-Fuller)** and Stationarized time series by Differencing(d)
- Plotted **PACF (Partial Autocorrelation function)** and **ACF (Autocorrelation function)** to find optimal parameters p, d, q
- **AR**, **MA**, **ARIMA** time series models applied and used **RSS** as an evaluation metric

## COURSEWORK AND SKILLS

<b>Academic Courses</b>	<b>Probability and Statistics</b>   Operations Research for Management   <b>Statistical Modelling for Business Analytics</b>   <b>Applied Machine Learning</b>   Frontiers in Operations Management   Market Research   <b>Data Mining and Knowledge Discovery*</b>
<b>Certified Courses</b>	Python For Everybody (Getting Started with Python)   Data Analysis Real world use-cases-Hands on Python   Excel Skills for Business Essentials   Ultimate Python Bootcamp For Data Science & Machine Learning   PowerBI Zero to Hero
<b>Technical Skills</b>	<b>PYTHON</b> (Numpy, Pandas, Scikit-Learn, Matplotlib, Seaborn)   <b>R</b>   <b>SQL</b>   <b>MS EXCEL</b>   <b>Power BI</b>   Machine Learning   Natural Language Processing   Statistical Analysis
<b>Soft Skills</b>	Critical Thinking, Problem Solving, Teamwork, Effective Communication, Adaptability

## POSITION OF RESPONSIBILITY

## Teaching Assistant for the course Financial Engineering, IME Department, IIT Kanpur

Aug'22-present

## ACHIEVEMENT AND EXTRACURRICULAR ACTIVITIES

- Earned HackerRank SQL(Basic) Certificate and SQL **Silver** Badge 2022
- Secured **AIR-18** in Gate (TF) 2021 2021
- Presented a poster in "National Conference on Contemporary Issues in Textile Manufacturing Process from Fibre to Garment" TEXCON 2020 2020
- Presented a poster in "International Conference on Advances in Textiles Materials & Processes" ATMP 2019
- Secured 3rd Position In "LOGO DESIGN" on Innovation Day at UPTTI Kanpur 2019
- Certificate of Selection in "Social Media Marketing" 2019

\*ongoing