

ACADEMIC DETAILS			
YEAR	QUALIFICATION	EDUCATIONAL INSTITUTION	PERCENTAGE/CGPA
2021 – 2023	M.Tech  Industrial & Management Engineering	Indian Institute of Technology Kanpur	7.04*
2014-2018	BTech   Mechanical Engineering	NIT Patna	6.88
2013	12 <sup>th</sup>   Rajasthan Board	B.R shikshan sansthan Sr Sec Sch chailasi Sikar	77.80%
2011	10 <sup>th</sup>   Rajasthan Board	Adrash gyan mandir Sr Sec Sch Rajnota	71.83 %

Professional Experience		
<b>Jaipur Rugs Company Pvt. Ltd.</b>	<b>Supply Chain Management Intern</b>	<i>(May'22 – July'21)</i>
<b>Objective</b>	<ul style="list-style-type: none"> <li>•To Analyse the demand for various yarns and develop a time series model to Forecast Yarn demand</li> </ul>	
<b>Approach</b>	<ul style="list-style-type: none"> <li>• To Develop the Understanding of different attributes of the bill of material data and past three-year production data</li> <li>• The yarn 23 used over the last three years was generated by merging bill of material (BOM) Data and Production Data</li> <li>• Cleaning of data so that different yarn consumption month-wise can be known and this data can be used for further modelling</li> <li>• Checked for stationarity, trend, and seasonality using ADF-test KPSS-test, and Decompose Plot.</li> <li>• AR, MA, ARMA, ARIMA time series models applied. For ARIMA(p,d,q) parameters p and q, PACF (Partial Autocorrelation function) and ACF used</li> </ul>	
<b>Result</b>	<ul style="list-style-type: none"> <li>• The descriptive analysis shows that for yarn 23 use in first 6 months was around 15 % and for last 6 months it was around 85 % for last 3 years this fact can be used to procure the yarn inventory</li> <li>• ARIMA was the best-fitted model among all the models with RMSE value of 21% of mean consumption</li> </ul>	

Academic Projects		
<b>FIFA-2019   Linear Regression Analysis   Statistical Modelling for Business Analysis</b>		<i>(Aug'21-Sep'21)</i>
<ul style="list-style-type: none"> <li>• To predict if the loan will be sanctioned or not by determining various factors affecting the chances of a loan sanction by bank</li> <li>• Performed <b>Data Cleaning, Exploratory Data Analysis, Correlation</b> and checked for <b>multicollinearity</b> using <b>VIF</b></li> <li>• Identified <b>heteroskedasticity</b> and corrected the consequences of it by using robust standard errors in regression</li> <li>• Performed <b>multi-variate Regression</b> for prediction of the <b>overall performance</b> of the player</li> <li>• The relation between the different features was observed with the overall performance of the player using the Regression model and got <b>R-squared</b> value of .9319 and <b>RMSE = 1.82499</b></li> </ul>		
<b>Loan Prediction   Logistic Regression Analysis   Statistical Modelling for Business Analysis</b>		<i>(Sep'21-Oct'21)</i>
<ul style="list-style-type: none"> <li>•To Determine the various factors affecting the chances of sanctioning a loan by the bank and built a model to predict if the loan will be approved or not</li> <li>•Performed <b>EDA, pre-processing</b>, and built a predictive model using 11 features using <b>Logistic Regression</b></li> <li>•The relation between the different features was observed with the attribute Loan status</li> <li>•Model <b>accuracy</b> was 81.77% and Credit History and Property area show the higher significance</li> </ul>		
<b>Fake Job Post Prediction   Applied Machine Learning</b>		<i>(Feb'22-Mar'22)</i>
<ul style="list-style-type: none"> <li>• To predict whether a Job Post mentioned on the internet is real or fake using the techniques of Natural Language Processing (NLP)</li> <li>• Pre-processed the data using <b>Stamping, Tokenization, &amp; Lemmatization &amp;</b> Used the <b>TF-IDF technique</b> for feature extraction from the data</li> <li>• Applied <b>SMOTE oversampling</b> and <b>Random</b> under-sampling techniques to handle the <b>class imbalance problem</b>. The best performing model was <b>VotingClassifier</b> with <b>0.71 Precision</b> and <b>0.74 recall</b> for <b>fraudulent classes</b> at <b>98% accuracy</b></li> </ul>		
<b>Analysis of customer satisfaction towards Online Shopping   Marketing Research</b>		<i>(Jan'22-Apr'22)</i>
<ul style="list-style-type: none"> <li>• To analyze &amp; identify “<b>Customer satisfaction towards online Shopping</b>” by identifying key features</li> <li>• Collected <b>200+ responses</b> to multiple questions about satisfaction using <b>online surveys, focus groups &amp; personal interviews</b></li> <li>• Carried out <b>Exploratory Data analysis, Descriptive Research</b> with SPSS and Python on the data (Convenience Random Sampling)</li> <li>• Statistical Analysis using (<b>parametric &amp; non-parametric</b>) tests (<b>One /Two tail t-test, Chi-squared test</b>) to verify <b>hypotheses</b></li> <li>• It was concluded that E-commerce must have a <b>quality assurance</b> team for non-branded items to gain customers exponentially, around <b>26% of people</b> with an income of less than <b>3 LPA</b> and <b>13%</b> of those with an income of more than <b>3 LPA</b> prefer non-branded items</li> </ul>		
<b>Agriculture Loan application form   Computer Aid Decision Support System</b>		<i>(Jan'22-Apr'22)</i>
<ul style="list-style-type: none"> <li>• Create an easy-to-use agricultural loan application form for semi-literate farmers while maximizing data quality</li> <li>• Designed ER diagrams for ‘bank loan application’ satisfying entity relationships &amp; cardinalities to develop HTML forms &amp; database</li> <li>• Built a Basic prototype of the <b>user interface</b> using <b>HTML</b>, collected data stored using MariaDB &amp; PHP on IIT K web server</li> <li>• Built a database that was used to collect data from the user interface with the help of <b>Structural Query language (SQL)</b></li> <li>• Conducted test trial for data collection from user interface and stored in the Database successfully</li> </ul>		
<b>Customer Segmentation   Applied Machine Learning</b>		<i>(Apr'22-May'22)</i>
<ul style="list-style-type: none"> <li>• The dataset consists of 541909 transactions occurring between Dec'2010 and Dec'2011 with 8 features</li> <li>• Calculated the parameters of RFM: Recency, Frequency, and Monetary values &amp; applied <b>Feature Engineering</b>, &amp; performed <b>Standardization</b></li> <li>• Applied <b>K-Means Clustering</b> to cluster the customers &amp; found the <b>optimal number of clusters</b> using <b>Elbow Method &amp; Silhouette Analysis</b></li> <li>• Segmented customers into 3 optimum clusters &amp; visualized the 3 clusters on a <b>3D scatter plot</b> with RFM values as the 3 indices using matplotlib</li> </ul>		
<b>Credit Card Risk Fraud Detection  Applied Machine Learning</b>		<i>(Apr'22-May'22)</i>
<ul style="list-style-type: none"> <li>• Dataset is PCA transformed and highly imbalanced containing 284,807 transactions with 35 features out of 492 frauds</li> <li>• Performed Explanatory Data Analysis (EDA), Data Preprocessing and Data visualization. Class imbalanced data is handled by Under Sampling and Over Sampling. Applied Logistic Regression, Random Forest and Decision Tree with various sampling techniques</li> <li>• Used Accuracy, Recall and F1-score as metrics for comparison. Best model was Random Forest with Over Sampling</li> </ul>		

Coursework, Skills, And Certifications	
<b>Coursework:</b>	Probability and Statistic   Data mining & knowledge discovery  Statistical Modelling for Business Analytics   Applied Machine learning   Marketing Research   Computer Aided Decision Support System   E-Supply Chain Management  Operation Research for Management   Business Management Using Cloud
<b>Technical Skills :</b>	Python   SQL  Pandas  Scikit-Learn  NumPy   Stats models   NLTK   Matplotlib   Seaborn   Java (basic)   HTML  PHP (Basic)   Excel   MS -Word   PowerBI   Tableau   Power Point  R
<b>Non-Technical Skills</b>	Analytical Thinking   Problem Solving   Strategic Thinking   Decision Making   Adaptability   Team Management  Communication Skills   Interpersonal Skills   Leadership   Team Work
<b>Certifications</b>	SQL - MySQL for Data Analytics and Business Intelligence (Udemy)   Microsoft Power BI Desktop for Business Intelligence (Udemy)   Time Series Analysis in Python 2022 (Udemy)  Data Analysis Real world use-cases- Hands on Python (Udemy)   Python for Data Science and Machine Learning Bootcamp (Udemy)

Achievements and Extracurricular	Position of Responsibility
<ul style="list-style-type: none"> <li>•Secured All India Rank (AIR) 357 in GATE 21 (ME) with 99.70 percentile</li> <li>•Got appreciation certificate from AUTO-NEXT for Automobile Basics and Advanced System with A++</li> <li>•Worked as PG Orientation Team Member of the counselling service at IIT Kanpur</li> <li>•Secured 3<sup>rd</sup> Position in event LA LIPSYNCZA at NIT Patna</li> <li>• Participated in various events in KSHITIJ 2017 Fest at IIT Kharagpur</li> </ul>	<p><b>Media and culture IME MTech IITK Coordinator</b></p> <ul style="list-style-type: none"> <li>• Maintaining overall data of each student of IME M.Tech.</li> <li>• Developing content for the website, social media, and maintaining the website.</li> <li>• Organizing Cultural events like Freshers, Farewell and Treasury management.</li> </ul> <p><b>Teaching Assistant for the Course MBA671-Managing Service Operation</b></p> <ul style="list-style-type: none"> <li>•Handling of course logistics and contributed to discussions for improving the course content and delivery</li> </ul>