## **RAMNIVAS JAT**

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EDUCATION			*till second semester
Degree/Certificate	Institute	CGPA/%	Year
MTech (Industrial and Management Engineering)	Indian Institute of Technology, Kanpur	7.45*/10	2021 - Present
BE (Mechanical Engineering)	Indore Institute of Science and Technology	7.14/10	2014 -18
Higher Secondary Education (M.P State Board)	Swami Pritemdas Gobindram Academy	73.2%	2014
Secondary Education (M.P State Board)	Swami Pritemdas Gobindram Academy	60.16%	2012

INTERNSHIP	Data Analytics and Innovation Intern, IBSFINtech May'22-July'22			
Bank Statement Classification				
Objective	To classify bank statements for facilitating 'automation of reconciliation process'			
Approach	<ul> <li>Applied data pre-processing (removing symbols, digit extraction), feature engineering techniques (text vectorization using TensorFlow's pre-trained universal-sentence-encoder model)</li> <li>Handled class imbalance problem using SMOTE and random oversampling</li> <li>Performed classification using Naïve Bayes Classifier, Support Vector Machine and Random Forest</li> </ul>			
Result	Achieved Test accuracy of 99% and Test F-1 score of 98% using Random Forest			
Image classification				
Objective	To classify image documents for facilitating 'document verification process'			
Approach	<ul> <li>Applied image pre-processing techniques (flattening, augmentation: image rotation, denoising, cropping)</li> <li>Used TensorFlow pre trained model: MobileNet (v2) to classify the images</li> </ul>			
Result	Achieved Train accuracy of 99.1% and Test accuracy of 97.78%			

KEY PROJEC	CTS		
RFM Analys	sis and Customer Segmentation   Applied Machine Learning   Clustering	Apr'22-May'22	
Objective	To analyze customers behavior for developing market strategies and plans		
Approach	Analysed RFM (Recency, Frequency, Monetary) characteristics using EDA techniques		
	Applied data pre-processing techniques (outlier removal: winsorization)		
	Plotted elbow graph to identify the optimal number of clusters for K-Means clustering algorithm		
Result	Observed silhouette score of 0.47 for the three clusters		
	Visualized the 3 clusters using 3D plot based on the amount, number of transactions, and most recent tra	nsaction	
Bike Sharin	g Demand Analysis   Statistical Modelling for Business Analytics   Multiple Linear Regression	Nov'21-Dec'21	
Objective	To understand the significant factors affecting the demand of shared bikes in the American market		
Approach	Visualised distplots, examined multicollinearity with correlation and VIF, Breusch-Pegan test for heteroskedasticity		
	Performed feature elimination using RFE (Recursive Feature Elimination) based on p-value		
Result	Achieved adjusted R <sup>2</sup> of 83.1% with the final OLS model of only 12 input features with 95% confidence		
<b>Analysis of</b>	Hurdles in Evolution of EV   Marketing Research	Apr'22-May'22	
Objective	To identify major Hurdles in Development and Expansion of EV market in India		
Approach	Formulated Management Decision and Market Research problems, Research Questions and Hypothesis		
	Designed questionnaire for online survey using Likert Scaling techniques, collected 210+ primary sample r	esponses	
	Carried out Exploratory, Descriptive Research in SPSS using Convenience Random Sampling		
	<ul> <li>Analyzed the data using statistical tests (One Sample t-test with 95% confidence level) to verify our hypot</li> </ul>	hesis	
Result	Identified charging time, cost, and distance travelled per charge as major hurdles		
Forecasting	g Monthly Champagne Sales   Self Project   Time Series Analysis	Dec'21-Jan'21	
Objective	To forecast future monthly sales of 2 years using historical sales data of 9 years		
Approach	Performed stationarity test using ADF (Augmented Dickey-Fuller) and Differencing to obtain stationarity		
	Plotted PACF (Partial Autocorrelation function) and ACF (Autocorrelation function) to find optimal parame	ters p, d, q	
	Applied AR, ARIMA, SARIMA models and used MAPE as evaluation metric		
Result	• Achieved test MAPE of 7.4% using SARIMA (1,1,1) x (1,1,1,12) model		

COURSEWORK & SKILLS *in progre	
Relevant	Statistical Modelling for Business Analytics   Applied Machine Learning   Probability & Statistics   Marketing Research
Courses	Data Mining and Knowledge Discovery*   Causal Inference Methods for Business Analytics*
Skills	Python   ML Libraries: NumPy, Pandas, Matplotlib, Seaborn, Scikit-learn   DL Libraries: TensorFlow   MySQL   SPSS   PowerBI
Soft Skills	Decision Making   Adaptability   Team Management   Communication Skills   Leadership   Team Work
Certifications	PowerBI Zero to Hero   SQL - MySQL for Data Analytics and Business Intelligence   Excel Skills for Business: Essentials

## **POSITION OF RESPONSIBILITY**

Aug'22 - Present

Departmental Post Graduate Committee Student Nominee, M. Tech IME IIT Kanpur

- In charge of responding to students' academic concerns and, if required, mediating with the convener
- Maintain frequent communication with the DPGC convener and assist him/her with any academic-related needs
- Assist the PG secretary with departmental decisions

## **ACHIEVEMENTS & EXTRACURRICULAR**

- Achieved 99.5 percentile with an AIR 580 among 1.2 lakhs students appeared in GATE 2021 (ME)
- Awarded 5-star Gold Badge in SQL under specialized skills at HackerRank
- Fitness Enthusiast: underwent transformation from 102 kgs to 72 kgs in 12 months