MADHUR RAWAT

ELECTIVES: Bayesian Methods, Comp Fin, DL, FRM



	_			CALCUTTA				
ACADE	MIC QUALIF	ICATIONS	1					
Year		Degree /Board	University / Institution %/CGPA					
2025*	Post Gr	aduate Diploma in Business Analytics	IIM Calcutta, IIT Kharagpur, ISI Kolkata -					
2021		B.Tech Electrical Engineering Indian Institute of Technology, F		7.48/10				
2017		CLASS XII	Air Force Bal Bharati School	94.6 %				
2015		CLASS X	Air Force Bal Bharati School	10/10				
KEY SKI	LLS/TOOLS	Predictive Modeling, Data Visualization	n, Statistical Inference, DSA, Problem Solving, Pyth	on, Power BI				
WORK 1	EXPERIENCE	(23 Months)						
Fractal Analytics		Imag	gineer Mumbai (Jul '21 - Jun '2				
Project		 Led 8+ studies based on User Behaviour Analytics, managing the setup, execution, closing and deliverable Automated data ingestion, manipulation, wrangling & validation using python, reducing time taken by 50% Used fundamental statistical techniques to flag user anomalies and raise data quality & compliance issue Developed PowerBI dashboards and Excel reports to analyse the performance of 100+ SKUs in 4+ market Collaborated with global clients, leading calls, aligning targets and closing the business tasks independently 						
_	onsibilities	■ Mentored and upskilled juniors, suppo	rted the team as an SME in Python and PowerBI who	-				
NTERN		onths)						
P Morga	an	Software Dev	veloper Intern Mumbai (M	Iay '20 - Jun '20				
Interns	ship Project	■ English – ISL: Used NLP to convert Engli	h & vice-versa, bridging communication gap for the sh sentences into ISL & then play pre-recorded video of the network to generate English sentences from pre-	os for each wor				
AWARD	S AND ACH	IEVEMENTS						
Aca	Academics Ranked in the Top 10 percentile of academic performers amongst the 62 students of PGDBA 2023-25 Batc Achieved AIR 1457 in JEE Main, AIR 1665 (99.1 %ile) in JEE Advanced '17 Achieved 99.67 %ile in XAT '2							
Case Competitions		 Rank 4/980 in Scytale (World Bank data analysis) IIM Ranchi Rank 5/940 in IDB-Analytics by IIM Calcutta Rank 5/424 in μ-lytics, Attrition (HR Analytics) based case competition, hosted by Masters' Union, Gurgaon 						
Certifications		■ Completed 11-week program in Data Science, Analytics & Data Engineering by Fractal and Great Learnin						
ACADE	MIC PROJEC	TS						
Credit Risk ■ Predicted the probability of customer loan default for 15 lakh+ applications with 400+ attribute								
Prediction		■ Performed data aggregation , SMOTE for class imbalance, feature engg; Trained LGBM and CatBoost mode						
(Class	sification)	■ Created a weighted ensemble model using soft voting classifier; Achieved AUC score of 0.88 and recall 0.7						
Transac	ction Amount	■ Predicted total credit card transaction a	mount of users utilizing MLR models (applying OLS,	Lasso & Ridge				
	ediction	■ Performed ANOVA test, t-test for significance of predictors, Chi-Square & KS Test for normality of residual						
(Reg	gression)	■ Used PCA to eliminate multi-collinearity; Analysed residuals using Q-Q plots and achieved R² score of 0.98						
	OS and NICU Stay Prediction ■ Constructed a LOS & NICU prediction model, using 130 attributes about lifestyle & demographics of Reduced no. of features to 30 using domain knowledge, multicollinearity analysis & clustering via ■ Used Naïve Bayes, Logistic Regression, XGB for NICU; Improved accuracy to 86%; Identified top 5							
	res Forecasting me Series) ■ Forecasted number of football matches for the next 5 years using 80 years of data having 45k+ matches for the next 5 years using 80 years of data having							
Extractive Text Performed Extractive Text Summarization on BBC News Dataset; Used NLTK & Universal Ser		ntence Encod						
		■ Used pagerank algorithm to select top -	Used pagerank algorithm to select top-5 most important sentences & fine-tuned BART to reorder sentence					
	sed Human cation (CNN)	 Developed biometric authentication system using ECG signal & deep learning methods to identify human Segmented ECG signals using peak-detection, removed unwanted frequencies using Low & High pass filte Used a 1-D Convolution Network to classify the ECG signals. Achieved an accuracy of 99.61% for 18 label 						
PII Dete	ection (NLP)	 ■ Given 6.8k essays, built a classification model for detecting PII, automating manual masking of personal da ■ Generated PosTags using SpaCy, tokenized using BERT Tokenizer; Used RegEx for identifying emails & ur ■ Employed stacked & ensemble DeBERTa models to classify tokens, improving F₅ score from 0.695 to 0.95 						
_	Image Captioning (Generative AI) ■ Developed an automatic image captioning model using a CNN - LSTM based Encoder - Decoder ■ Applied teacher-forcing in LSTM to accelerate training and Top-K Sampling for diversity during the Leveraged Transfer Learning to finetune InceptionV3 & VGG16 models; Improved Rogue-L sc							
POSITIO	ONS OF RES	PONSIBILITY & EXTRA CURRICULA	RS					
	sketball		Meet ['18] Secured 3rd position in Sangram-IITR s	ports meet ['19				
Data C	c. Casebook							

INTERESTS: Puzzles, Reading, Football