RAJAN RAVINDRA LAWANE



				CALCUTTA			
ACADEMI	C QUALIF	ICATIONS					
Year		Degree /Board	University /Institution	%/CGPA			
2025*	Post Gra	duate Diploma in Business Analytics					
2021		B.E. Electrical Engineering	Government College of Engineering , Nagpur 8.52/				
2017		CLASS XII	Yeshwant Mahavidyalaya, Wardha				
2015		CLASS X	SHV, Wardha	92.4 %			
KEY SKILL	S/TOOLS	Machine Learning, Data Visualizatio	n, Statistical Data Analysis, NLP, Python, R Programmin	ng, SQL, Excel			
AWARDS	AND ACH	IEVEMENTS					
ACHIEV	EMENTS	_	wel MTSE exam for exceptional performance and prob centiles in the MBA-CET exam in 2023, reflecting excep	_			
Case Competition		■ Achieved 1st place at Pitch Forge Frenzy 2023, excelling in IIM Rohtak's national pitch deck competition ■ Ranked 4th (out of 1218 teams) in Zenith 2.0 2023, Business Case Competition conducted by IIM Calcutta ■ Ranked 4th (out of 420 teams) in Statistella 2024, Data Analytics Case Competition organised by IIT BHU ■ Ranked 8th(out of 763 teams) in Ad-War-Tize 5.0'23, Marketing case Competition conducted by IIM Raipur					
Certifications		■ Earned Google Python Certification in 2022, showcasing proficiency in Python & advanced coding skills ■ Obtained Engage7x Analytics & Data Science Certification in 2022, showing skill in data-driven approach.					
ACADEMI	C PROJEC	TS					
Predicti	b Price on using on models	■ Predicted listing price for 75k+ Airbnb properties (26 features) with linear & polyno. regression model: ■ Treated outliers; Tackled multicollinearity (VIF and backward selection); Applied Ridge regularization ■ Analyzed residuals with KS test & QQ plt. Built DT, RF & XGB regressor; ↑R2 by 23% to 0.75 with XGB					
Disease l	vascular Detection fication)	■Built a hybrid heart disease classifier on 4k+ patients' data Addressed 6:1 class imbalance using SMOTE Executed EDA , Iterative & mode imputation for missing values and handled outliers via Isolation Forest . Trained a hybrid KNN + Random Forest + Logistic Regression classifier using GridSearchCV and crossvalidation techniques, achieving an AUC of 0.87 , along with a positive class recall of 0.97 & F1 Score of 0.89 .					
Predicti	e Attrition on (Deep ning)	 ■ Developed a Neural Network Model using IBM dataset for identification of the Employee Attrition Patterns ■ Performed EDA, Label encoding, scaling, SMOTE, & hyperparameter tunning using the genetic algorithn ■ Outperformed Logistic Regression, SVM, Decision Tree, RF, XGB, & matched top model on balanced data ■ Achieved an AUC-ROC of 0.81 with a 2.25%↑ in accuracy and a 2.27%↑ in F1 Score on imbalanced data. 					
Screening	ed Resume gusing NLP d model	■ Developed an Unbiased Resume screening Model using 2300+ resumes & 23 JDs across several domain Labelled the dataset by calculating cosine similarity between JD & Resume using TF-IDF Word-embeddin Extracted Features using Word2Vec & Applied SVM, Bi-LSTM& BERT to obtain best Precision score of 0.78					
of Intermi	orecasting ttent Time ries						
optim	tfolio ization ance)	 ■ Collated over 18 months of daily stock prices of 20 NSE-listed firms to find optimal investment portfol ■ Used Markowitz as a base model; Employed Hidden Markov Model(5state), calculated transition matr ■ HMM outshoned Markowitz with return 1.25 (34%↑),volatility 0.18 (16%↓) & Sharpe ratio 7.09 (59%↑) 					
ADDITION	NAL PROJI	ECTS					
Segment	omer ation and n. system	■ Explored behavioural patterns & perf	nstomers & build recommendation system out of 5L a Formed RFM analysis , Identified & defined 3 clusters lied cluster-based collaborative filtering to recommen	s using K-Mear			
Demand F	Achieved silhouette score of 0.3&applied cluster-based collaborative filtering to recommend top 10 item Forecasted drug sales based on 13 yrs historical data and checked stationarity of data using the ADF test Analysed ACF-PACF plots for order of SARIMA model & Ljung-box for the residual autocorrelation analys Selected best model using gridsearch based on AIC&BIC, obtained MAPE of 8% using best SARIMA model						
POSITION	S OF RES	PONSIBILITY & EXTRA CURRICUL	ARS				
	ion of sibility		nton coordinator at GCOE, Nagpur in 2019-20, contri source allocation and handled the training sessions of t				
Spe	Sports Winner of the District-level badminton championship organized by Ministry of Sports and Youth Represented GCOE, Nagpur at the Inter-Collegiate Badminton Tournament organized by RTMNU,						
Quiz	Quizzing ■ 1st rank in district-level quiz competition conducted by Sewayog Sanstha, demonstrating general 2nd rank in a district-level quiz conducted by Lokmat News Group, showcasing knowledge and cr						
Events	Coordinated Badminton event at SFOORTI 2020, managing schedule for over 50+ students across 10 ■ Spearheaded the team of publicity in Adhyaay'19, ↑ student footfall by 20 % by enhancing the event vi						

ELECTIVES: NLP, Healthcare Analytics, SCA, FRM INTERESTS: Badminton, Cricket, F1