## RITUJA UTTAM METAR

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ACADEMIC QUALIFICATIONS				
Year		Degree/Board	University/Institution	%/CGP
2025*	Post Graduate Diploma in Business Analytics		IIM Calcutta, IIT Kharagpur, ISI Kolkata	-
2023	B.Tech Electrical Engineering (Minor in Data Science and AI)		IIT Dharwad	8.85/10
2019	CLASS XII		Ratanabai Walbai Junior College of Science	90 %
2017		CLASS X	St. Francis Xaviers High School	95.2 %
KEY SKI	LLS/TOOLS	Statistical Data Analysis, Predictive Modeling,	-	
	-	PONSIBILITY & EXTRA CURRICULARS		
	Placement	■ Organized and facilitated <b>Prep &amp; KT</b> sessions to	assist over <b>60+</b> PGDBA students with interviev	v preparatio
	Coordinator	■ Orchestrated <b>Finals'24</b> ; Coordinated transition t		
	t Placement	■ Spearheaded Company Management team - 20+		
Head	l (B. Tech)	■ Assisted in <b>Placement report</b> focused on <b>Analy</b>		•
Public Relations		■ Fostered & managed relations with 20+ companies; effectively overseeing end-to-end recruitment process		
Mentorship		■ Mentored 6 freshmen as Institute Mentor & 26 sophomores as Department Mentor, promoting academic		
Cultu	ral & Tech	■ Represented IIT Dharwad in Culinary & Quiz Ev	ents - <b>5<sup>th</sup> Inter IIT Cultural</b> Meet & <b>9<sup>th</sup> Inter I</b>	IT Tech Mee
AWARI	OS AND ACH	IEVEMENTS		
Scl	holastic	■ 99.70 percentile in MHT CET-19   99.07 percen	ntile in JEE Mains-19   MTSE State Rank 10   N	<b>TSE</b> Qualifie
Achievements		■ 3 <sup>rd</sup> in International Abacus Competition   Institute Topper Class 1-10   Dr. Homibhabha Silver Medalis		
Case Competitions ■ 1 <sup>st</sup> in Carbon Trading (IIM A)   2 <sup>nd</sup> in emp. churn Prediction (Masters' Union)   4 <sup>th</sup> in Data Analys			alytics (IIM (	
(2023)		■ Top 7/1000+ in Data Visualisation & Analytics Case (IIM Ranchi)   Top 12/1700+ in Finance Case (IIM A)		
Cert	ifications	■ Stanford University: Machine Learning by Andre	w Ng; Neural Networks and Deep Learning: De	epLearning. <i>A</i>
WORK :	EXPERIENC	E (1 Month)		
ICICI Baı	nk Ltd	Management Trai	nee Mumbai (Jun	'23 - Aug '23
Anamo	ly Detection	■ Worked on <b>Anomaly detection</b> using <b>Isolation</b>	Forests for pre-approved loan offers; dataset :	<b>6M+</b> records
INTERN	NSHIPS (8 M	onths)		
	ngineering	Software Devlopment	Intern Bengaluru (May	'22 - Dec '22
	erformance	■ Developed Service Level Agreement (SLA) driv		
	nputing	■ Implemented cloud-based solutions on Micros	. ,	
ACADE	MIC PROJEC	TS		
	Traffic	■ Built a model to forecast <b>12 months</b> of <b>passeng</b>	er traffic at San Francisco airport based on 16	<b>vears</b> of data
	Prediction ■ Checked stationarity using ADF test; Analysed ACF-PAG		•	-
(Time Series)		■ Applied <b>ARIMA</b> , <b>SARIMA</b> and <b>LSTM</b> models to achieve <b>MAPE</b> of 1.76%, Reducing <b>RMSE</b> by 80% w.r.t. ARIMA		
Credit	Card Fraud	■ Built <b>Graph-based</b> credit-card <b>fraud detection</b>	model with dataset of <b>200k+</b> observations and	22 features
(GraphML &		■ Represented data as <b>graph-network</b> using networkx; used the <b>Louvain algorithm</b> for community detection		
Classification)		■ Generated Graph Embeddings using <b>Node2Vec</b> ; applied <b>LR</b> , <b>RF</b> , <b>SVM</b> and <b>DT</b> , <b>recall</b> 0.90 and <b>F1 score</b> 0.73		
Product		Generated <b>feature-based suggestions</b> using <b>5K+ web-scraped</b> reviews to enhance product development		
Development (NLP & Gen AI)		<ul> <li>Applied TF-IDF for text vectorization, Word2Vec &amp; LDA for feature extraction, BERT for sentiment analysis</li> <li>Used BART for review summarization; compared criticality scores from HoQ for product recommendations</li> </ul>		
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	ws Topic cation (NLP)	<ul> <li>Developed a classification model to classify 2K n</li> <li>Implemented NN, bi-RNN &amp; bi-LSTM; fine-tuned</li> </ul>		_
	Retinopathy		<u> </u>	
(CNN)		<ul> <li>Developed a binary classification CNN model using 2.8K+ retina images for identifying diabetic retinopathy</li> <li>Exercised data augm.; leveraged transfer learning on VGG19, Xception &amp; ResNet-50 model; acc. 98.12%</li> </ul>		
	IONAL PROJ			
	ionii I no,	■ Implemented a regression model to predict curre	ant Car valuation by leveraging 100K+ records	& 12 feature
	e Prediction	<ul> <li>Handled multicollinearity using VIF; Used Box-C</li> </ul>		
(Reg	gression)	■ Applied <b>DT, RF, LGBM</b> and <b>XGBoost</b> after MLR; A		
		■ Developed <b>predictive models</b> using <b>Logistic Re</b>	·	
	F Live Project	■ Managed datasets of 2M records, addressed prob	-	
(Class	sification)	■ Implemented XGBoost, RF, KNN and Adaboost Classifier, achieving up to 89% recall with AUC-ROC of 0.86		
Targeted Ads.		■ Segmented E-commerce customers using <b>5L+</b> invoice data; performed feature engineering and <b>RFM</b> analysi		
(Clustering)		■ Cluster profiling using <b>KMeans</b> , <b>Agglomerative</b> & <b>DBSCAN</b> ; Silhouette score 0.92 ( <b>3</b> clusters), DB score 0.24		
G	Gen AI	■ Developed <b>ChatBot</b> using <b>Gemma-2B LLM</b> , Fine	-tuned with <b>LoRA</b> on 1K Q&A from Databricks;	BLEU: 0.65
EI ECTI	VES: FRM.	NLP, Product Analytics, Computational Fin.	INTERESTS: Cooking, Reading	