SANGITA BHAKAT



ACADE	MIC QUALIFI	CATIONS					
Year		Degree /Board	University /Institution	%/CGPA			
2025*	Post Grad	uate Diploma in Business Analytics	IIM Calcutta, IIT Kharagpur, ISI Kolkata	-			
2017	I	3.E. Chemical Engineering	Jadavpur University	7.61/10			
2012		CLASS XII	Gandhi Memorial High School (W.B. State Board)				
2010		CLASS X	Searsol High School (W.B. State Board)	8.5/10			
	ILLS/TOOLS		der Management, Data Visualization, Python, SQL, Powe	-			
		(56 Months)					
HPCL	EXIT EXTENSE	·	stant Manager Visakhapatnam (M	Joy '18 - Jul '2'			
Analytics		■ Boosted sales by 11% YoY and improved customer satisfaction, using RFM analysis for targeted campaigns ■ Forecasted sales with exponential smoothing to plan for inventory, manpower and operations; \$\ddot\$3% Op-Ex ■ Leveraged Power BI dashboard for transport fleet mgmt., improved in-transit safety by 7% , \$\ddot\$TAT by 11%					
Strategic Initiatives		■ Enhanced sales by 7% -drawing insights from polynomial regression of factors affecting supply/ demand ■ Saved 19 lakhs annually by implementing effective analysis mechanism for 'supplier payables' using SQL					
Leadership		■ Managed 374+ stakeholders to implement EM locks in 196+ vehicles, resulting into NIL enroute pilferage ■ Led a team of 5 to automate fuel logistics, \$\ddot\ DT\$ by 9%, \$\ddot\ Truck utilization by 17%, \$\ddot\ Order delivery by 46%					
Rewards &		Awarded all India 'HP Utkrisht Sewa Samman' for strategic initiatives - first woman to be awarded in HPCL					
Rec	cognition	■ Promoted twice within a span of 4.	5 yrs HPCL's fastest promotion track, due to exceptional	performance			
AWARI	DS AND ACHI	EVEMENTS					
Cert	tifications	■ Oracle Database SQL Certified Ass	ociate: up to 19c Completed 'WSDL: GenAI, LLMs, & Be	eyond' (ISI Ko l			
Data Science Case Competitions		 1st in Customer Segmentation Comp. (IMT Gz.) National Finalist - stock MgmtSQL chatbot(BITS Hyd) 1st in Recession Prediction Challenge (BITS Pilani) 2nd in Improving Profitability of Hotel (NIT Dgp) 2nd in Employee Churn Prediction Ch. (MU, Delhi) 3rd in Predicting Hazardous Asteroids (NIT Trichy) 					
Busines	ss Case Comp.		e comp (IIM A) National Finalist in Prisma Marketing				
	MIC PROJECT		1 711				
	n Amount		records & 24 features to predict loan amt to be dishurs	ed to custome			
	Built a regression model using 30k records & 24 features to predict loan amt to be disbursed to cust rediction Removed multicollinearity: VIF, handled outliers & heteroscedasticity, checked auto-correlation: DW-						
	(Regression) Applied OLS, Ridge, Lasso, RF, XGB models, achieved 20% in adj. R² with XGB Regressor over						
	ner Complaint ication (NLP)	Classified complaints into 5 categories by training models on 183k data using LR, RF, bi-LSTM , GRU & BER Pre-processed text using Word Lemmatizer employed TF-IDE GloVe 6B 50D to create word embedding					
Insur	rance Claim	■ Identified fraud claims by training a	classification model on 138k+ records; tackled class imba	alance(SMOTE			
Fraud Detection		■ Assembled a stacking classifier with DT , LR , and RF base models, refined by a Random Forest meta-model					
(Clas	ssification)	■ Increased F1 Score by 9% to 0.89, R	ecall to 0.91 with GridSearchCV hyperparameter tuning	over LR mode			
	Forecasted hourly trip demand for a ride-sharing startup using 3 months cab booking data by using SAR Evaluated stationarity: ADF test; analyzed ACF, PACF plots for order selection; performed STL decomposed Selected the best model based on AIC, BIC; achieved MAPE of 12.9% & used Ljung-Box for residual analyses.						
ADDITI	IONAL PROJE	CCTS					
Questi	on & Answer	■ Created a RAG-based Q&A system b	y leveraging GPT-3.5 & LangChain; built the interface us	ing Streamlit			
Syste	em (Gen AI)		ddings using OpenAIEmbeddings & used Pinecone for w				
Reco	Apparel ommender System	■ Developed a content-based recommendation system for 28k+ apparel; vectorised images using Resnet ■ Constructed BoW , weighted Word2Vec & SBERT title vectors; modeled using stacked title & image vectors.					
	MRI Image sification (CNN) Analysed 5200+ brain MRI scans to develop a model for accurately classifying and localizing brain turn Used data augmentation to train custom CNN, VGG-16 models, †F1 score by 3.2% with VGG-16 over Implemented U-net model for detecting tumor location, trained with dice loss & achieved mean IoU of						
Cus	tomer Seg	n records to segment customers; performed feature engi	neering & PCA				
(Clustering) Used K-Means, Agglomerative & DBSCAN; achieved Silhouette score 0.23 & DB score 1.37 with K-Mea							
POSITI	ONS OF RESI	PONSIBILITY & EXTRA CURRICU	LARS				
Fa	cilitator						
Club	Secretary						
Organizer Conducted 3 Covid vaccination camps & enrolled 630+ drivers/workers under PM Surak							
O.		conducted b covid vaccination can	-ps & ciri circa co c : arry cro, i criticio arrace i rri carantini	a Dilita i Ojalia			