AKSHAY K



AIX				INSTITUTE OF MA	
ACADEMIC QUALIFICATIONS					
Year		Degree /Board	University /Institution	%/CGPA	
2025*	Post Grad	uate Diploma in Business Analytics	IIM Calcutta, IIT Kharagpur, ISI Kolkata	-	
2021	B.Tech C	omputer Science and Engineering	National Institute of Technology, Puducherry	86.8 %	
2017		CLASS XII	Excel Public School, Mahe	96.5 %	
2015		CLASS X	Katurba Gandhi Govt. H.S Palloor	96.3 %	
KEY SKI	LLS/TOOLS	Programming, Problem Solving, St	upply Chain Logistics, Python, R, Tableau, SQL, PySpark	x, Power BI	
VORK	EXPERIENCE	(25 Months)			
redenc	ce Analytics Sol	utions Pvt. Ltd.	onsultant Bangalore (Jun '21 - Jul '2	
	tenance of	■ Maintained 10+ Tableau & Power	rds for Ecommerce sector on data hosted in Databrick . BI Dashboards to monitor Supply Chain related to 600 atabases & cloud platforms and native SQL servers usi	stores across U	
	lopment of shboards	 Developed a dashboard tracking Level of Service of Carriers moving loads from Cross Docks to Store Led the process of meeting stakeholders, exploring & validating potential data sources, & designing visual 			
Mi	igration	 Migrated SQL & Python scripts of 100+ lines of code each out of legacy systems to ensure zero downtin Migrated complex ETL workflows out of Alteryx to Tableau Prep supporting data needs of several team 			
Aut	tomation	Automated Emails with updates &	alerts using Tableau Prep & Python scripts saving 10)+ man hrs/we	
ACADE	MIC PROJECT	S			
	elling Stock Regression)	 Regressed log of Amazon's stock returns (4 years of data) with CAPM, Fama-French 3 & 5 Factor mode Tested models on 2 months of data, achieving a model with MAE of 0.0075 & Adjusted R² value of 0.51 Verified Heteroscedasticity using Breusch-Pagan test and Autocorrelation using Durbin Watson test 			
	l Car Sales recasting	■ Forecasted the next 30 months of used-car sales in the US using SARIMA and 15 years of historical dat ■ Decomposed the series, identified seasonality to be annual, did seasonal differencing to get stationarit ■ Conducted ADF tests for stationarity and examined ACF & PACF plots to identify a set of potential model ■ Achieved an ideal model with MAPE ~3% using AIC , BIC , & Ljung-Box statistics to verify autocorrelation			
	t for Medical ries (RAG)	Chunked the articles using LangChain and embedded them using a model trained in a contrastive many			
Credit Card Fraud Detection (GNN) ■ Created a heterogeneous, tri-partite graph from 2M row ■ Trained the data with GraphSage algorithm, generating en ■ Trained an XGBoost model with the training embeddings		algorithm, generating $\mathbf{embeddings}$ for both training &	inductive node		
ADDITI	ONAL PROJE	CTS			
Livene	Collected 14k images of faces, live and spoofed, from self-taken videos, using a pre-trained face detection (Image spoint and spoofed). Collected 14k images of faces, live and spoofed, from self-taken videos, using a pre-trained face detection of the face in a camera yielding 94% accumulated a facial landmarks detector to determine orientation of the face, ensuring accurate verification of the face, ensuring accur			ng 94% accurac rate verificatio pernetes Engin	
	Photo Search Application Converted the captions (BLEU-4 score		el with pretrained InceptionV3 model & LSTM on Flickr 30k datase are of 0.126) into keywords and embedded them using GloVe vector wing photos in order of distance of the embeddings to the search tag		
	nstomer nentation	_	alculated RFM metrics to predict CLV of online shoppers based on BG/NBD & Gamma-Gamma model pplied RFM segmentation and K-Means Clustering based on RFM & CLV with a Silhouette score of 0.6 ′		
(D	s of Speech Dynamic gramming)	namic ■ Developed the Viterbi algorithm (Dynamic Programming) in Python from scratch to implement an HM			
	ding ML		er in Python from scratch tuning Laplace Smoothing as		

POSITIONS OF RESPONSIBILITY & EXTRA CURRICULARS

Algorithms (w/o

Libraries)

State Level Chess ■ Secured 3rd Place in State Chess Championships in Puducherry in both Under-17 and Under-19 divisions.

■ Wrote a **Logistic Regression** model tuning **class weights** in Python from **scratch** to predict **loan defaults**.

■ Wrote **K-Means** & **Agglomerative** Clustering, assessed them with **Silhouette Score** & **Jaccard Similarity**.

ELECTIVES : Games and Information, Machine Learning INTERESTS : Chess, Football, Reading