## K HEMANTH KUMAR



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	MIC QUALIFICATIONS				
Year		Degree /Board	University /Institution	%/CGPA	
2025*		te Diploma in Business Analytics	IIM Calcutta, IIT Kharagpur, ISI Kolkata		
2015	B. Tec	ch (Hons.) Civil Engineering	Indian Institute of Technology (IIT), Bhubaneshwar	6.08/10	
2010		CLASS XII	Narayana Junior College, Hyderabad	91 %	
	LLS/TOOLS	CLASS X Statistical Analysis Stakehold	Andhra Pradesh Residential School (APRS), Kodigenahalli der Management, Leadership   ML, Python, Pandas, Numpy,	90.33 %	
		PONSIBILITY	ter Management, Beauership   MB, Tython, Tanadas, Manipy,	т, одц, пкс	
Placement Representative, IIM Calcutta		<ul> <li>Conducted Final Placements (2022-24) – achieved a 63% improvement in median, 51% in mean, ar 207% in highest CTC   Achieved the highest CTC in the 9 years history of PGDBA (~61% improvemen</li> <li>Created a centralized database for first time in the history of PGDBA   Facilitated sponsorship for Trilyti</li> <li>73% PPO conversion rate; onboarded 63% more recruiters and an international recruiter after 6 year</li> </ul>			
Assistant Presiding Officer		<ul> <li>Served as an APO for Huzurabad constituency bye-elections, led 10+ officers for smooth election process</li> <li>Managed ~1100 voters, and coordinated logistics between voters, security, and staff, ensuring compliance</li> </ul>			
WORK	EXPERIENCE	(21 Months)			
Ministry	of Finance, GO	OI Insp	ector, GST & Customs Hyderabad (Oct	: <b>'21 - Jul '2</b> 3	
Impact (Tax Collection)		<ul> <li>Detected &amp; recovered ~ ₹170 Cr from a PSU; Audited 30 units, detected ~ ₹250 Cr &amp; recovered ~ ₹210 Cr is sued Show Cause Notices to the tune of ~ ₹30 Cr, adjudicated and recovered ~ ₹22 Cr of it with interesting Improved tax collection by ~33% for FY 2021-22 by analyzing DG Analytics reports in the Nacharam Range</li> </ul>			
Recognition		<ul> <li>Only officer among 62 in the Division to receive a perfect 10/10 score in the FY 2022-23 Annual Apprais</li> <li>Recognized as one of the top three Inspectors for overall performance during the Induction Program, 202</li> </ul>			
Key Achievements		<ul> <li>Assisted NIA in a successful terrorist search &amp; seizure operation   Completed training for Superintende</li> <li>Granted the highest number of GST registrations (54 firms) in my Commissionerate during the FY 2022-</li> </ul>			
Initiatives		<ul> <li>Acted as the single Point of Contact for all Hyderabad Zone officers during the e-office digitization progra</li> <li>Created monthly visualization plots, summary figures; Liaised with various officials to improve complian</li> <li>First in Commissionerate to join the GST Seva Kendra, a new initiative of MoF to effectively assist taxpaye</li> </ul>			
ACADE	MIC PROJECT	ΓS			
Length Of Stay Prediction (LOS) (Regression)		<ul> <li>Built Regression model to predict LOS of patient on dataset having 100K+ observations &amp; 27 attribute</li> <li>Addressed Multicollinearity using VIF   Applied OLS &amp; polynomial regression; Lasso for feature selection</li> <li>Employed Residual analysis for model validation, outlier detection   Improved R2 (22% ↑) using XGBook</li> </ul>			
Forecasting IIP (Time Series)		■ Forecasted IIP of Primary goods (Minerals, Fuels and electricity) by analyzing last 10 years of monthly da ■ Checked stationarity (ADF test), ACF, PACF plots for SARIMA order, used grid search to get best model (AI ■ Forecasted with the SARIMA model to get MAPE of 2.897% and used Ljung-Box test for residual analyses.			
Extracting Customer Needs Using UGC (NLP)		<ul> <li>Built CNN based text classifier to filter informative sentences from UGC data (Amazon Oral-care reviews)</li> <li>Fine-tuned the word2vec (skip-gram) word embeddings   Achieved F1 score of 0.69 and Precision of 0.78</li> <li>Used Ward's method to cluster similar sentences, facilitating topic modelling to identify sparse need</li> </ul>			
Portfolio Optimization		<ul> <li>Utilized MPT on 5 Indian stocks; Extracted data from Yahoo Finance &amp; generated Efficient Frontier Curv</li> <li>Optimized the portfolios to achieve a maximum Sharpe Ratio of 1.07 and a minimum volatility of 8.34</li> </ul>			
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Pneumonia detection (Computer Vision)		<ul> <li>Built CNN based classifier Model on 6K Chest X-ray images to classify into Normal and Pneumonia patien</li> <li>Exercised data augmentation, batch norm &amp; early stop; Finetuned VGG16 &amp; ResNet50 model max acc. 830</li> </ul>			
Credit Card Default Prediction (Classification)		<ul> <li>Built classification model for credit card default prediction on 30K+ historical credit dataset &amp; 24 feature</li> <li>Applied Oversampling (SMOTE) for balancing data; used Logistic Regression, Random Forest &amp; XGBoos</li> <li>Performed hyperparameter tuning and improved F-beta score from .80(LR) to .84 &amp; attained AUC of 0.8</li> </ul>			
Customer profiling (Clustering)		<ul> <li>Segmented 9K+ credit card users by spending patterns for targeted marketing; used PCA for cluster profilir</li> <li>Used Elbow-plot to find opt K; Achieved Silhouette Score (0.4), Davies Bouldin Index (0.8) with K-Mean</li> </ul>			
AWARD	S AND ACHI	EVEMENTS			
Superintendent Training		■ Secured <b>1st place</b> out of 189 in the <b>GST Quiz Competition</b> by National Academy of Customs, Indirect Taxe & Narcotics (NACIN), during the Induction Training for the <b>Promotion of Superintendent</b> , Hyderabad, 202			
Inspector Training		■ 2 <sup>nd</sup> /228 rank in the <b>Shooting Competition</b> during Induction Training at Telangana State Police Academy, 202			
<b>Competitive Exams</b>		<ul> <li>Secured rank in top 0.17 %ile (~30.26 lakh candidates) in the Combined Graduate Level (CGL) Exam, 201</li> <li>Top 1%ile in UPSC CSE prelims applicants (~10 L+); qualified for UPSC mains thrice in 2016, 2017 &amp; 201</li> </ul>			