## **MAHESH PANDURANG HAMPOLE**



HAM	POLE			CALCUTTA	
ACADE	MIC QUALIF	ICATIONS			
Year		Degree /Board	University /Institution	%/CGPA	
2024*	Post Gra	duate Diploma in Business Analytics	IIM Calcutta, IIT Kharagpur, ISI Kolkata	-	
2019		B.Tech Civil Engineering	College of Engineering, Pune	6.91/10	
2015		CLASS XII	Sri Chaitanya Jr. College	96.3 %	
2013		CLASS X	Hutatma Pansare Highschool, Dharmabad	89.64 %	
KEY SKI	LLS/TOOLS	Data Visualization, Predictive Modeli	ng, Data Mining, Strategic Thinking, Python, SQL, Pov	wer BI, Excel	
WORK	EXPERIENCE	(42 Months)			
Tarkashastra Academ		Quantitative	Aptitude Faculty Pune (Ma	ar '22 - May '2	
Roles and Responsibility		■ Strategically designed and executed, a results-driven quantitative aptitude curriculum for <b>230+ student</b> resulting in <b>5.2%</b> enhancement in performance across competitive exams such as CAT, MHCET, SNAP, & other			
Innovative Vastunirma		nn Pvt.Ltd Project Execution Engineer Pune (Jun '19 - Nov '2			
Roles and Responsibility		<ul> <li>■ Directed teams of 300+ employees to complete 4 high-value (₹100 crore+) industrial construction project</li> <li>■ Liaised with cross-functional teams to optimize synergy &amp; ensure structural integrity, safety &amp; improve TA</li> <li>■ Mentored &amp; guided a team of 3 engineers &amp; 2 interns in critical project management practices and delive</li> </ul>			
Business Impact		<ul> <li>Designed and implemented an Excel dashboard to effectively track works progress, allocate manpower and resources   Analyzed data to find out gaps in partner management leading to reduction in process time by 6</li> <li>Drove 12%↑ in productivity and 8%↓ in timeline through strategic management at Cummins India projection.</li> <li>Reduced costs by ₹15 Lakhs by mapping contractors and suppliers for the Datwyler project in Maharasht</li> </ul>			
ACHIE	EVEMENTS	■ Recognized as the "Employee of the y	vear 2021" nominated by the SBU Head for exception	nal performan	
AWARD	S AND ACHI	EVEMENTS			
Ac	ademic	■ <b>Top 1.5 percentile</b> in MHT-CET15 of 0	.2M candidates; Recipient of Foundation for Excellence	ce Scholarship'	
Case Competitions		■ Ranked 4th out of 1210+ teams in Zenith 2.0 2023, Business Case Competition organized by IIM Calcut ■ Ranked 4th out of 400+ teams in Statistella 2024, Data Analytics Case Competition organized by IIT BF ■ Ranked 8th out of 760+ teams in Ad-War-Tize 5.0'23, Marketing Case Competition organized by IIM Raip			
ACADE	MIC PROJEC	ΓS			
Used Car Price Prediction (Regression)		<ul> <li>■ Developed Regression models to predict the price of used cars using 11.8k+ observations and 20 featur</li> <li>■ Performed feature engineering; imputed missing values with iterative imputer; validated all assumptio</li> <li>■ Mitigated multicollinearity with VIF, PCA, Lasso &amp; Ridge; identified influential points using dffits-statist</li> <li>■ Adj. R2 to 0.77 (↑11.5%); Analyzed non-linear models (AdaBoost, XGB, RF) and improved Adj. R2 to 0.3</li> </ul>			
Intermittent Demand Forecasting		■ Classified products in to Intermittent, Smooth, Lumpy & Erratic based on CV2 & ADI with Croston Methors ■ Forecasted demand for intermittent series (SBA, ADIDA, MAPA) with MASE of 4.14, surpassing SES Methors			
Employee Attrition prediction (Classification)		■ Developed an <b>ANN model</b> for employee attrition; conducted <b>EDA</b> , <b>SMOTE</b> , & <b>GA</b> for hyperparameter tunin Achieved <b>AUC-ROC</b> of <b>0.81</b> , outperforming Logistic Regression, SVM, Decision Tree, Random Forest, & XC Improved <b>acc</b> . by <b>2.25</b> % & <b>F1 Score</b> by <b>2.27</b> % on imbalanced data; matched the top model on balanced data			
Lung Cancer Detection (Classification)		■ Designed an <b>ensemble CNN model</b> , enhancing diagnosis capabilities & robustness with <b>data augmentation</b> ■ Trained & Integrated <b>EfficientNet-B3</b> , <b>Inception-v3</b> and <b>ResNet50</b> using transfer learning for enhanceme ■ Achieved <b>91.25%</b> accuracy , <b>2.27%</b> ↑ over the leading model, with <b>1.7%</b> ↑ in <b>recall</b> and <b>2.55%</b> ↑ in <b>F1 Sco</b>			
ADDITI	ONAL PROJI	ECTS			
	Forecasting ne Series)	■ Analyzed <b>ACF</b> & <b>PACF</b> plots to identify	years of historical data, ensuring data <b>stationarity</b> worder of SARIMA model & <b>Ljung-box test</b> for residua wased grid search, achieving <b>8% MAPE</b> with <b>SARIMA</b>	l autocorrelati	
Customer Segmentation		■ Clustered 9K credit card users by spending patterns for <b>targeted marketing</b> ; reduced dimensions using <b>PC</b> ■ Identified optimal K with <b>Elbow plot</b> ; achieved <b>Silhouette</b> ( <b>0.4</b> ) and <b>Davies-Bouldin</b> ( <b>0.8</b> ) using <b>K-mean</b>			
News Classification (NLP)		<ul> <li>Built models to classify news articles into 4 topics (World, Sports, Business, Science) using 2.5K+ article</li> <li>Achieved accuracy of 67% with Word2Vec &amp; Neural Network; 69% with Bidirectional RNN and LST</li> <li>Implemented BERT using Hugging Face Roberta base model &amp; achieved superior results (89 % accuracy)</li> </ul>			
POSITIO	ONS OF RESI	PONSIBILITY & EXTRA CURRICULA	ARS		
Captai	n, Baseball,	■ Spearheaded a team of <b>20</b> athletes at u	university & national level sports events, securing a t	otal of 3 meda	

COEP

- Increased the number of competing teams by 25% year on year by acting as Baseball Event Head in Zest'18

Coordinator, Drama, COEP

**ELECTIVES:** Healthcare Analytics, Supply Chain Analytics, FRM

■ Elected as 1/4 Drama Coordinators unanimously by 60 team members| Strategized & utilized budget of ₹2L

INTERESTS: Badminton, Cricket

■ Directed drama of 2019 | Led a 3-tier team of **55** and garnered a total audience of **5000+** for 2 stage shows