

KUNAL SODHANI



ACADEMIC QUALIFICATIONS			
Year	Degree /Board	University /Institution	%/CGPA
2025*	Post Graduate Diploma in Business Analytics	IIM Calcutta, IIT Kharagpur, ISI Kolkata	-
2020	B.Tech Computer Science & Engineering	Government College of Engineering and Leather Technology	9/10
2016	CLASS XII	Bhavan’s Gangabux Kanoria Vidyamandir	93.33 %
2014	CLASS X	St. Joan’s School	96.33 %
KEY SKILLS/TOOLS		Statistical Data Analysis, Deep Learning, Leadership, Agile, Python, R, SQL, Microsoft Azure, MS Excel	
WORK EXPERIENCE (23 Months)			
Tata Consultancy Services (TCS)		Systems Engineer	Kolkata (Aug ‘20 - Aug ‘22)
Responsibilites	<ul style="list-style-type: none">■ Migrated on premise resource to Microsoft Azure cloud; streamlined deployment of apps in DEV and QA env■ Administered SQL Server databases, automated data retrieval and entry saving 70+ man hours per month■ Worked on ServiceNow ticketing tool; Performed infra setup, app installation, upgrades and troubleshooting■ Generated triweekly report for identifying unused/underutilized MS Azure resources, reducing costs by 22%		
Leadership	<ul style="list-style-type: none">■ Served as SPOC from the Engg. Team for 2 projects, collaborating with 11+ teams based out of USA and India■ Standardized documentation and SOPs for workflows & failures for future reference in project related tasks■ Conducted knowledge transfer sessions for new recruits on the project practices and monitored their perf.		
Recognition	<ul style="list-style-type: none">■ Received 4 client & TCS Gems Certificate of Appreciation, for closing critical project deliverables before time■ Achieved Top 1%ile among 100k+ employees in DCA; Promoted to Digital cadre within 7 months of joining		
AWARDS AND ACHIEVEMENTS			
Certifications	■ Microsoft Certified Azure Administrator ; Certification on Data Science and ML by Microsoft Imagine Acad		
Academic Achievements	<ul style="list-style-type: none">■ Received prestigious recognition from the Sanmarg Foundations for scoring 96% in Hindi in the SSC exam■ Cleared CT1 (Financial Mathematics), CT3 (Prob & Mathematical Stats) from Institute of Actuaries of India		
Case Competitions	<ul style="list-style-type: none">■ Ranked 1st/586 in WSAC’23 for optimizing warehouse stock management with NLQ by BITS Hyd. worth 25k■ Ranked 2nd /211 in Vidyut for data analytics and dashboard designing for car purchase by BIMTECH, Noida■ National Finalist (5th/608) in OP Analytica for demand forecasting, optimizing warehouse location by IITM		
ACADEMIC PROJECTS			
Uber Price Prediction (Regression)	<ul style="list-style-type: none">■ Predicted Uber ride prices on a dataset having 2L observations using the OLS Regression as baseline model■ Treated outliers, detected multicollinearity with VIF & tackled it with PCA; identified features with ANOVA■ Achieved R2 score of 0.72 for Ridge and Lasso regression by tuning hyperparameters using GridSearchCV		
Power Demand Forecasting (Time Series)	<ul style="list-style-type: none">■ Forecasted Haryana’s monthly power demand for the next 22 months using about 17 years of historical data■ Checked stationarity using ADF test, analysed ACF-PACF plots for SARIMA order & Ljung-Box for residuals■ Log transformed to handle heteroscedasticity; selected model with best AIC/BIC, achieved MAPE of 3.83%		
Email Text Summarization (NLP)	<ul style="list-style-type: none">■ Built abstractive email thread summarizer (20k emails) using Seq2Seq model (LSTM) with GLoVE embed.■ Applied cross-attention in the encoder-decoder model Fine-tuned the T5 transformer for better results■ Enhanced generated summaries, improving ROUGE-L by 38% pts to 0.44 and ROUGE-1 by 51% pts to 0.59		
Diabetic Retinopathy Detection (CNN)	<ul style="list-style-type: none">■ Developed CNN model to detect and classify cases of diabetic retinopathy(5 classes) using 2k+ retina images■ Performed image normalization & augmentation Leveraged transfer learning(VGG16, ResNet50 models)■ Enhanced precision of 'Healthy' class by 8% to 0.94 & weighted F1 score by 14.5% to 0.71 with ResNet50		
Recommender System	<ul style="list-style-type: none">■ Built content-based recommender system using TMDb dataset (~5k movies & credits), hosted on Streamlit■ Vectorized textual features(TF-IDF); Used K-means Clustering, achieved Silhouette score of 0.59 (DBSCAN)■ Built graph network for movies (networkx), used Adamic-Adar Index to recommend from similar clusters		
ADDITIONAL PROJECTS			
Credit Card Default (Classification)	<ul style="list-style-type: none">■ Predicted credit card default using data for 30k customers, 23 features and 6 months historical transactions■ Performed EDA, applied SMOTE for balancing classes; used Logistic Regression & Random Forest models■ Enhanced results with XGBoost (weighted F1-0.78, AUC- 0.74) and analysed feature importance with SHAP		
Document Querying (RAG)	<ul style="list-style-type: none">■ Developed a RAG system leveraging LLMs for querying confidential documents using LangChain and FAISS■ Experimented with temperature values; Enhanced response quality with context using LangChain memory		
POSITIONS OF RESPONSIBILITY & EXTRA CURRICULARS			
Dance Club Head	■ Spearheaded the college's Western Dance Troupe, winning 4 competitions and featuring in YouTube videos		
Event Head	■ Event Head for ‘Team Word War X’ at Enginerds'18, GCELT annual techno-creative fest with footfall of ~ 11k		
External Relations PGDBA	<ul style="list-style-type: none">■ Coordinated online awareness sessions totaling approximately 7k views & increased PGDBA regs. by ~43%■ Designed YouTube, Instagram thumbnails and posters for promotions; Mentored and Onboarded Jr. Batch		
ELECTIVES : NLP, Financial Risk Management , Econometrics			INTERESTS : Dance, Sketch, Table Tennis