ATHARVA SAMEER KULKARNI



				CALCUTTA	
ACADE	MIC QUALIFI	CATIONS			
Year		Degree /Board	University /Institution	%/CGPA	
2025*	Post Grad	luate Diploma in Business Analytics	IIM Calcutta, IIT Kharagpur, ISI Kolkata	-	
2019	B.Tech Electr	onics and Communication Engineering	Visvesvaraya National Institute of Technology, Nagpur	9.49/10	
2015		CLASS XII	Royal Junior College of Science and Commerce, Dombivli	91.69 %	
2013		CLASS X	Vidya Niketan School	90.73 %	
KEY SKI	LLS/TOOLS	Statistical Analysis, Agile, Program	ıming, Leadership, Python, SQL, AWS, PyTorch, Git, Java, Ta	ableau, R	
WORK	EXPERIENCE	(48 Months)			
Morgan Stanley		I	Manager Bangalore (Feb	'23 - Jul '2 3	
Roles and Responsibilities		 Developed & maintained scalable applications (Margin Platform) for Prime Brokerage division of the fire Ensured release cycle changes' stability affecting the Margin Calculations and ensured a complete signo 			
Deliverables and Leadership		■ Led data center modernization and inter-region migration (180+apps); Analyzed & optimized resource ■ Enhanced legacy processes in 48 hrs. enabling risk managers to mitigate risk amid the 2023 bank failure			
Fidelity Investments			ftware Engineer Bangalore (Aug		
Roles and		■ Full Stack developer Built & Deployed (AWS) scalable applications of Equity Fundamental Research Tea			
Responsibilities		■ Managed E2E delivery of research tools aiding Analysts & PMs managing \$3.15T Discretionary Eq. Asse			
Key Deliverables		 □ Designed & Developed: Feedback app. (saved \$121k/yr); Automated financial calculation in research note □ Built Engagements tracking tool for ESG Res. team: reducing >25% time, removed management overhea □ Designed database systems for research reports; Enhanced Information Barrier checks for research dat □ AWS Migration of apps (reduced 83% infra. cost); Setup custom monitoring & CICD pipelines for 23 app □ Built POCs: Muni. bond digitizer (AWS Textract) □ Knowledge Graph builder (Stanford Core NLP, Neo4 			
Initiatives and Leadership		 Spearheaded the company earnings research project; Enabled research publishing with 75% less contents Ensured cloud migration wrap up (54 apps) 3 weeks prior to deadline, built Tableau reporting dashboar Standardized DR and API testing strategies, Log monitoring (Datadog); Oversaw technical backlog of apprint of the company o			
AWARI	OS AND ACHI	IEVEMENTS			
Academic and		■ Among Top 10% ile of PGDBA Batch-9 ■ Institute Medal - Highest CGPA in B. Tech ECE 2019 Batch, VNI			
Professional		■ Exceptional Performance Rating (Fidelity Investments) ■ HSC Exam: Top 0.5%ile; Secured 4L Scholarsh			
Certifications		■ Amazon Web Services (AWS) – Certified Developer Associate: Acquainted with EC2, SNS, SQS, Lambda, S			
Case Competitions		■ Ranked 1/586 - Warehouse stock mgmt. with NLQ - BITS Hyd. ■ 2/211 - Car purchasing dashboard - BIM			
Publications		■ Published IEEE conference papers at 9th ICCCNT 2018 – IISc Bangalore and IESC 2019 – NIT Meghalay			
ACADE	MIC PROJECT	rs			
Airbnb Price Prediction (Regression)		 □ Predicted listing price for 75k+ Airbnb properties (26 features) with linear and polyno. regression mode □ Treated outliers; Tackled multicollinearity with VIF & backward selection; Applied Ridge regularizatio □ Analyzed residuals with KS test & QQ plt. Built DT, RF & XGB regressor; ↑R² by 23% to 0.75 with XG Boo 			
NEFT Volume Forecasting (Time Series)		■ Forecasted the daily volume of NEFT transactions for a 30 - day horizon using 3 years of transaction dat ■ Conducted ADF test; Analyzed dual-seasonality (MSTL), Residuals (Ljung-Box) and order (ACF and PACF ■ Handled dual seasonality as an exogenous variable with SARIMAX ; Reduced RMSE by 32% over SARIM			
	CRetinopathy (CNN)		5 class, 2.8k img) with CNN, VGG16 & ResNet50 (transf tion, augmentation; 'Healthy' class precision-0.94, weight		
Email Text Summarization (NLP)		■ 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 result Enhanced generated summaries, improving ROUGE-L by 38% pts to 0.44 and ROUGE-1 by 51% pts to 0.5			
ADDITI	ONAL PROJE	ECTS			
	Card Default sification)		gistic regression (30k records, 23 features);Balanced data BM & XGB (F1 - 0.78, AUC - 0.74); Analysed feature import		
Document Querying (RAG)		 Developed a RAG system leveraging LLMs for querying confidential documents using LangChain and FAIS Experimented with temperature value; Enhanced response quality with context using LangChain memory 			
Movie Recommender (Clustering)		■ Built a content based & user-to-user collab. hybrid recommender (MovieLens100k) Resolved cold star ■ Used K-Modes , Hierarchical clustering & Cosine similarity; Achieved Silhouette score 0.696 , Hit rate 2.6			
_		PONSIBILITY & EXTRA CURRICUL			
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External Relations ■ **Coordinated** online **promotion** sessions ~7k views; PGDBA regs.↑ ~43%; **Mentored** & **Onboarded** Jr. batch

ELECTIVES : Deep Learning, Financial Risk Mgmt., Econometrics INTERESTS : Sketching, Sudoku, Cycling