

ACADEMIC QUALIFICATIONS			
Year	Degree /Board	University /Institution	%/CGPA
2025*	Post Graduate Diploma in Business Analytics	IIM Calcutta, IIT Kharagpur, ISI Kolkata	-
2019	B.Tech (Hons.) Civil Engineering	IIT Guwahati	7.19/10
2014	CLASS XII	Mittal International School	88.4 %
2012	CLASS X	Global Public School	9.2/10
KEY SKILLS/TOOLS		Machine Learning, Statistical Inference, API Development, Python, Java, Continuous Integration, AWS	
WORK EXPERIENCE (47 Months)			
Fidelity Investments		Lead Software Engineer	Bangalore (Aug '19 - Jul '23)
Backend & API	<ul style="list-style-type: none">Deployed and tested API changes in 3 different environment Dev, QA & UAT before deploying them in PRODPushed API changes in K3 clusters hosted in AWS using CI/CD pipelines set in Concourse and Jenkins CoreMaintained 10+ APIs as microservices architecture for facilitating users onboarding on multiple ALM toolsUpgraded Sonar API to use recommended version of SpringBoot 2.6 for organisational security compliance		
Frontend	<ul style="list-style-type: none">Renewed and installed SSL certificates across all Highway ALM environments by using deployment pipelineEnhanced Highway ALM UI for users to provide valid business justification for Active Directory role request		
Artifactory	<ul style="list-style-type: none">Worked on Artifactory Query Language (AQL) to identify dormant Docker images to purge from databaseConducted Artifactory DR test by switching traffic flow to standby region and performed functionality checkRan vacuum in Xray postgres database hosted in 2 Linux VM to remove 1M+ dead tuples for optimizing db		
Automation & Migration	<ul style="list-style-type: none">Migrated API pipelines from Concourse to JenkinsCore & implemented secrets storage in JC-vault using CLIDeveloped Python script for removing Artifactory invalid manage privileges & set to run weekly by cron job		
Support	<ul style="list-style-type: none">Provided 24X7 on-call assistance to support Artifactory users on rotational basis to resolve INC and SREQsReduced average Maximum Time to Resolve (MTTR) tickets from 7 days to 3 days; a reduction of 57.14%		
Dashboard monitoring	<ul style="list-style-type: none">Delivered 99.95% Service Level Agreement (SLA) for Artifactory; Maintained application hosted on LinuxEstablished email alerts for Xray persist microservice using DataDog UI; threshold set at 50k+ queue count		
AWARDS AND ACHIEVEMENTS			
Competitions & Performance	<ul style="list-style-type: none">Scored 99.72 %ile (QA) in CAT (2022); Secured 99.33 % ile in JEE Advanced 2015 among 1.3M+ studentsSecured 4th rank among 940 teams in IDB Analytics 3.0 (2023) case competition organised by IIM CalcuttaRewarded 120% performance bonus for Exceptional Performance (EP) ratings in 2022-23 appraisal cycle		
ACADEMIC PROJECTS			
Taxi fare prediction using Neural networks	<ul style="list-style-type: none">Developed 2 Neural Networks from scratch to predict taxi fares using dataset of 200k+ trips and 9 featuresPerformed cleaning and feature eng to add feature distance; Used sigmoid and ReLU function respectivelyReduced MSE to 4.26 and 5.92 using 200 epochs and compared with inbuilt Keras NN loss of 4.15 and 4.19		
Countries Clustering (C-Linkage)	<ul style="list-style-type: none">Scratch implementation of K-means and C-Linkage Bottom up clustering of 167 countries with 9 featuresLeveraged Cosine Similarity for distance measure; Obtained Silhoutte coefficients of 0.78, 0.68 and 0.67Used Jaccard Similarity to compare K-means results with C-linkage and got scores of 0.84, 0.76 and 0.56		
Email Classification (NLP)	<ul style="list-style-type: none">Classified emails into spam/not-spam using Logistic Regression and Naive Bayes on dataset of 5k+ emailsPerformed EDA, Stemming on data and created Tfidf space; Obtained accuracy of 0.95 and 0.96 respectivelyGot weighted recalls as 0.85 and 0.88; Improved accuracy and recall metric upto 0.98 and 0.98 using LSTM		
Oil price prediction (Time series)	<ul style="list-style-type: none">Predicted price of US crude oil imports using Time series modelling on data of 165 months using SARIMARemoved trend, seasonality and confirmed stationarity using ADF test; also perform log-transformationSelected SARIMA (0,1,1)*(0,1,1)₁₂ as model; Obtained AIC of -3.29, MAPE of 5.22%, and Ljung-box > 0.05		
Restaurant Recommender	<ul style="list-style-type: none">Leveraged Content based filtering; Stored info of 10k+ US based restaurants in K-d tree for binary searchRetrieved tags of nearby rest. from user reviewed rest.; created Tfidf space by extracting restaurant attributeRecommended top 5 similar restaurants by calculating cosine similarity of restaurant in this feature space		
Medical Insurance Approval	<ul style="list-style-type: none">Scratch implementation of decision tree model to classify labelled dataset of 5500+ applicants into 4 classesAchieved accuracy of 0.97 and recall values of 1, 0.93, 0.71 and 1 for 4 classes by using entropy based treeImproved accuracy to 0.98 and recall values upto 1, 0.95, 0.85 and 1 for 4 class using Gini Index based tree		
Pre-Owned Car Price Prediction	<ul style="list-style-type: none">Predicted price of pre-owned cars, performed EDA, plotted the data to study the features & identify outliersUsed OHE, correlation analysis & box-cox transform; Used VIF to check multicollinearity & feature selectionExplored linear models (MLR, RIDGE & LASSO), tree-based models (RF & XGB) and achieved R² score 0.88		
POSITIONS OF RESPONSIBILITY & EXTRA CURRICULARS			
Astronomy	<ul style="list-style-type: none">Core team member of Technical Board, IIT Guwahati during year 2016-17 representing Astronomy ClubFame lab India (British Council): Selected for participating in FAMELAB India Regional Science Workshop		
ELECTIVES : Machine learning, Financial Risk Management, SCA		INTERESTS : Astronomy, Running	