

ACADEMIC QUALIFICATIONS			
Year	Degree/Board	University/Institution	%/CGPA
2021*	Post Graduate Diploma in Business Analytics	IIM Calcutta, ISI Kolkata, IIT Kharagpur	9.54/10
2018	Dual Degree in Civil Engineering	Indian Institute of Technology Kharagpur	8.71/10 (Rank-2)
2013	Class XII, CBSE	India International School, Jaipur	89.4%
2011	Class X, CBSE	India International School, Jaipur	10/10
AWARDS & ACHIEVEMENTS			
Institute Rank 4 - PGDBA 2019-21			
Academic Achievements	<ul style="list-style-type: none">Awarded merit - based scholarship for securing highest GPA in 1st semester of PGDBA at ISI KolkataAchieved 100%ile (Score: 101.09/102) in CAT '17 QA and 99.32%ile overall (99.98%ile QA) in CAT '18Ranked 3rd among 328 participants in Mathematics Olympiad organized at KSHITIJ '20, IIT KharagpurSecured AIR33 in National Science Talent Search '12, AIR132 in International Mathematics Olympiad '12Secured rank in National Top 1% /12000 candidates in International Astronomy Olympiad '12 Stage 1		
Publication	<ul style="list-style-type: none">Ranked 16th/301 participants in NTIRE Real Image Denoising Challenge in conjunction with CVPR'20Ranked 17th/174 participants in AIM Image Super Resolution Challenge in conjunction with ECCV'20		
Data Science Competitions	<ul style="list-style-type: none">Ranked 14th globally at the COVID-19 Open Task by AICures, Massachusetts Institute of TechnologyRanked 2nd/375 & 3rd/461 participants in AI/ML quiz organized by Univ.AI and Datalogy respectivelyRanked 4th among 169 participants in Notitia, Data Analytics event organized by IFMR (GSB), Sri CityRanked 23rd/5042 & 58th/10256 participants in NLP & CV challenge by HackerEarth & Analytics VidhyaTop 4.1%/2756 participants in International Data Analysis Olympiad 2020 by HSE University, Russia		
Competitive Programming	<ul style="list-style-type: none">Ranked 79th/6701 participants in OHF 2020, 30 - challenge coding contest organized by Dare2CompeteTop 0.76% among 38917 participants in July Easy '20, programming contest organized by HackerEarth		
WORK EXPERIENCE (12 months)			
Structural Engineer	Offshore Engineering Design and Energy Consultants Pvt. Ltd. Mumbai (June '18 - May '19)		
Roles & Responsibilities	<ul style="list-style-type: none">Pioneered design methodologies for Topside structures and prepared Standard Operating ProceduresHandled communication & negotiation with multiple leads in multiple projects under Aker Sol. & L&TPart of recruitment team for interviewing 20+ candidates during campus placements at IIT Kharagpur		
INTERNSHIPS (4 months)			
Summer Intern	Department of Computer Science & Engineering, IIT Kharagpur (April '20 - July '20)		
Explainable Recommendation Systems (Graph ML)	<ul style="list-style-type: none">Implemented RecWalk on MovieLens 1M & generated explainable recommendations using PRINCEWeb scraped movie attributes from DBPedia and obtained movie similarities using BERT EmbeddingsAchieved HITS@10 of 0.69, 31% higher than ACM baseline paper with extended information network		
Knowledge Aware Chatbots (NLP)	<ul style="list-style-type: none">Generated informed responses using Transformer trained on Wizard of Wikipedia with 173K dialogsDevised framework using Reinforcement Learning to adaptively update model with data in real-time		
Summer Intern	Prof. Sahadeb Sarkar, Operations Management Group, IIM Calcutta (June '20 - July '20)		
Fantasy Games - Skill v/s Chance	<ul style="list-style-type: none">Explored methodologies including Monte Carlo simulation to identify degree of skill in fantasy cricketComputed users' win-fraction, ROI & performed Z-test & KS-test to find skill difference between usersFormulated Bayesian approach to validate skill in game & explored clustering of users using K-Means		
ACADEMIC PROJECTS			
COVID-19 Pandemic Modelling (TS)	<ul style="list-style-type: none">Forecasted number of COVID-19 cases using ARIMA, Logit Model & SIR based epidemiological modelModelled trend part with spline, error with ARIMA and performed ADCF test to check for stationarityCompared model performance with RMSE metric, improved it by 4.5% against base model RMSE 190.7		
Credit Score Prediction (ML)	<ul style="list-style-type: none">Devised classification framework to predict financial delinquency trained with data of 150K borrowersDeveloped Python class to assess set of classifiers, data models & optimize threshold from ROC curveObtained 0.86 AUC on RF with tuned parameters & improved it against base model 0.62 AUC on SVM		
Improving Building Segmentation (CV)	<ul style="list-style-type: none">Proposed an End-to-end building segmentation framework trained on 605 images visible on Bing MapsExtracted building coordinates using Google's DeepLabv3 & enhanced images with Super-ResolutionAchieved IoU of 0.68; improving benchmark by 5 percentage points compared to CVPR baseline paper		
Improving Dialog Systems (NLP)	<ul style="list-style-type: none">Designed End-to-end conversational dialog system with generative hierarchical neural network modelAccounted for temporal nature of utterances in model trained on DailyDialog dataset with 13K dialogsAttained BLEU-4 score of 0.03; improving it by roughly 4 times as compared to IJCNLP baseline paper		
Image Enhancement Techniques (CV)	<ul style="list-style-type: none">Explored denoising, dehazing and deraining techniques to estimate clean images from occluded onesDesigned autoencoder & attained model performance comparable to CycleGANs & Pix2Pix approachObtained PSNR of 15.96 & SSIM of 0.6; scores comparable to Top 16 in NTIRE '19 Dehazing Challenge		
COVID-19 Symptom Checker (AI)	<ul style="list-style-type: none">Designed chatbot prototype based on CDC's COVID screening protocol in multiple Indian languagesTracked user's location using GeoPy & disseminated information of testing centres & beds in real-time		
POSITIONS OF RESPONSIBILITY, EXTRA - CURRICULAR ACTIVITIES			
Governor, Dance Society, IIT KGP	<ul style="list-style-type: none">Led a team of 33 to participate in Rendezvous '16, IIT Delhi; Conferred Gold in Shuffle, Spring Fest'15Earned Special Mention for outstanding performances in Social and Cultural Events at IIT Kharagpur		
Writer	Active Writer at Quora with over 3800 followers, 2.5 Million views and above 150 questions answered		
Sports	Represented PGDBA (1/61) in Finals of Chess in the Intra Freshers Tournament' 20 held at IIM Calcutta		
TOOLS: Python, PyTorch, Tensorflow/Keras, OpenCV		COURSES: Deep Learning, Foundations of Machine Learning	