



EDUCATION

Year	Degree/Exam	Institute	CGPA/Marks
2021	B.TECH	IIT Kharagpur	8.73 / 10
2016	CBSE Class XII (AISSCE)	Maheshwari Public School, Jaipur	91.4%
2014	CBSE Class X (AISSE)	Maheshwari Public School, Jaipur	9.2 / 10

INTERSHIPS

Video Analytics Indicus Software, Pune	May 2019 - July 2019
<ul style="list-style-type: none">Developed a real-time face recognition and motion detection system using dlib and other DNN librariesDetected the shapes of the plate and food items using YOLO Darknet, a real-time object detection systemDeployed and integrated the above models to Contineo, an IoT platform for automatic billing in the restaurantCreated age and gender detection model using Caffe framework achieving accuracy above 60%	

COMPETITION/CONFERENCE

Inter Hall Data Analytics IIT Kharagpur Secured Bronze	February 2019
<ul style="list-style-type: none">Predicted network congestion type for the given data of cellular tower level activity achieving 80.7% test accuracyEmployed XGBoost, Neural Network, Random Forest and SVM along with feature engineering to improve accuracyInterpreted and analyzed the results of the built model to suggest mitigative measures to prevent the congestionPerformed hyperparameter tuning using grid search and Bayesian optimization followed by k-fold cross validation	
NetApp Data Challenge Kshitij, IIT Kharagpur Secured Bronze	January 2019
<ul style="list-style-type: none">Performed text classification on the given data of news headlines and description to predict news categoryUsed TF-IDF features and Topic Modelling for feature extraction and trained model using SVM and Neural NetworkUsed Model Ensembling to improve the accuracy by using predictions from multiple machine learning algorithms	
Open IIT Data Analytics INS Analytics, Kolkata Secured Bronze	September 2018
<ul style="list-style-type: none">Employed ARIMA Time Series Model to the given data of medicine sales to predict the sales pattern in coming yearsDeduced interpretation from forecasted data to device Inventory Management Strategy to increase sales and profitDone failure modes and effective analysis (FMEA) to identify all possible failures in our proposed model	

PROJECTS

Prediction of occupational risk Professor in charge: J.Maiti	August 2018 - December 2018
<ul style="list-style-type: none">Predicted occupational risk in an industry using SVM and Random Forest and done a comparative studyUsed NSGA-II and MOPSO for tuning and optimizing parameters of the algorithm to improve the results of classifierSelected and analyzed the best classifier with the help of Global Criterion Method (GCM) for injury risk prediction	
Green supplier selection with order allocation Professor in charge: J.Maiti	January 2019 - April 2019
<ul style="list-style-type: none">Applied Z-Number Best Worst Method (ZBWM) as an MCDM technique to weight criteria of several suppliersEmployed Fuzzy-PROMETHEE and Fuzzy-TOPSIS method to rank suppliers on the basis of given evaluation criteriaUsed FMOLP as an optimal order allocation method to maximize the profit and allocated orders to various suppliers	

POSITIONS OF RESPONSIBILITY

Mentor Student Welfare Group, IIT Kharagpur	July 2019 - Present
<ul style="list-style-type: none">Guiding 4 freshers about various opportunities available in the campus and helping them to overcome challengesHelping juniors towards achieving their full potential and excel in academic and extra-curricular activities	

SKILLS AND EXPERTISE

Programming Languages: C, C++, Python, R, Octave	Software: MySQL, MS Visio, Tableau, MS-Excel
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COURSEWORK INFORMATION

Probability and Statistics | Machine Learning | Programming and Data Structures | Transform Calculus | Numerical Solution of Ordinary and Partial Differential Equation | Deep Learning (Coursera) | The Analytics Edge(EdX)

AWARDS AND ACHIEVEMENTS

- Ranked in top 0.5% students in JEE Mains 2017 and in top 2% students in JEE Advanced 2017
- Won a Silver medal in Inter-Hall Chem Quest competition 2019 by designing DEG transportation system
- Qualified Level-1 of Flipkart Grid Machine Learning/Artificial Intelligence competition

EXTRA CURRICULAR ACTIVITIES

- Worked as a volunteer in NSS, IIT Kharagpur and was committed to the welfare of underprivileged children
- Part of gold-winning choreography team of Azad Hall of Residence in Social-Cultural General Championship 2018
- Volunteered in KHOJ-2018, an annual treasure hunt competition conducted by Azad Hall of Residence