



## EDUCATION

Year	Degree/Exam	Institute	CGPA/Marks
2021	M.SC(5YR)	IIT Kharagpur	7.52/ 10
2015	Senior Secondary Examination	RBSE	82.80%
2013	Secondary Examination	RBSE	86%

## INTERNSHIPS AND PROJECTS

<b>Voice Analytics Intern   Edelweiss Tokio Life Insurance   Mumbai</b>	<b>May'19-Jul'19</b>
<ul style="list-style-type: none"><li>Built an <b>unsupervised algorithm</b> to determine the <b>Voice Sentiment</b> by extracting audio features to determine emotion by valence curve</li><li>Used Hidden Markov Model, Neural network, SVM model, to make cluster of similar voices and extracted audio features for training</li><li>Improved the precision of model to <b>76.14%</b> to correctly flag the calls based on sentiments and that of <b>79%</b> for <b>speaker diarization</b></li><li>Presented the demo working code to test over live calls. Got <b>recommendation</b> letter from <b>Vice President and Chief Manager, Analytics</b></li></ul>	
<b>Artificial Intelligence Intern   Landryt   Bengaluru</b>	<b>Apr'20-Jun'20</b>
<ul style="list-style-type: none"><li>Built an <b>Integrated NLP based search engine</b> to identify the entities of users in the land judgment records for the Karnataka state</li><li>Used Image processing, OCR, OpenCV and Canny Edge detection, application of sobel and gaussian filter on images to find entities</li><li>Built a custom <b>NER model</b> using <b>Spacy, train Encoder and decoder, LSTM</b> for identification and text sentiment classification</li><li>Achieved a <b>precision of about 83%</b> for the text and <b>94%</b> on image classifier using <b>CNN (VGG16 architecture)</b> to classify image category</li></ul>	
<b>Research Intern   Prof. Adrija Majumdar   IIM Ahmedabad</b>	<b>Apr'21-Jun'21</b>
<ul style="list-style-type: none"><li>Performed Sentimental analysis on scrapped post of wallstreetbets from reddit platform to predict the behaviour of gamestop stock</li><li>Build NLP algorithm to forecast whether reviews affects prices behaviour, made guided LDA model, loughran-mcdonald sentiment over post</li></ul>	
<b>Bike Rental Forecasting   Prof. Buddhananda Banerjee   IIT Kharagpur</b>	<b>Oct'18-Nov'18</b>
<ul style="list-style-type: none"><li>Forecasted demand for bike rental on time series data by applying methods such as <b>ARIMA, Holt's winter method, Random Forest</b></li><li>Carried out <b>Feature Engineering</b> making series <b>Stationary (Unit root)</b> and taking account for <b>Multicollinearity</b> and <b>Heteroskedasticity</b></li><li>Built Boosting Trees(XGboost, Gradient boosting algorithms) to improve <b>MCC</b> score and identify the structural breaks present in series</li></ul>	

## COMPETITION/CONFERENCE

<b>Credit Risk Prediction   IIM Udaipur</b>	<b>Apr'18-Jun'18</b>
<ul style="list-style-type: none"><li>Developed a <b>Statistical model</b> to predict short-term credit ratings of the companies using default ratios and risk measures like <b>alfa, beta</b></li><li>Scraped the data from bloomberg and carried out <b>Feature engineering</b> of the time series data and built a <b>regression model</b> for prediction</li><li>Improved the accuracy of the model to <b>78%</b> to correctly depict ratings based on their <b>probabilities of default</b> and classify accordingly</li></ul>	
<b>Sentiment analysis   Interhall Data Analytics   IIT Kharagpur</b>	<b>Mar'19</b>
<ul style="list-style-type: none"><li>Designed an algorithm to carry out <b>sentimental analysis</b> for the reviews of insurance firm by using <b>Bi-directional LSTM model</b></li><li>Train a word embedding model <b>word2vec (CBOW model)</b> on specific data for generating better predictions based on different classes</li></ul>	
<b>Case study Competition   Techniche   IIT Guwahati</b>	<b>Jan'18-Feb'18</b>
<ul style="list-style-type: none"><li><b>Finalist</b> in the case study competition, sterilized the growth of MSC cruise industry with cost effective strategies to compete and expand</li><li>Applied various frameworks including <b>SWOT analysis, AHP, BCG matrix</b> and break even point to strengthen and areas to expand</li></ul>	

## SKILLS AND EXPERTISE

<b>Programming Languages</b> : C/C++   Python   R   Stata   SQL	<b>Libraries/ Tools</b> : Keras   Git   Opencv   Bloomberg   Scikit Learn
<b>Areas</b> : Algorithms and Data Structures   Data Analytics   Machine Learning   Deep Learning   Statistical Modelling	

## COURSEWORK INFORMATION

<b>Analytics</b> : Regression and Time Series   Econometrics Analysis   Machine Learning   File Organisation and Database System
<b>Mathematics</b> : Probability and Statistics   Non Linear Programming   Partial Differential Equation   Linear Algebra   Financial Management
<b>Computer Science</b> : Data Structures   Design and Analysis of Algorithms   Natural Language Processing   Deeplearning.ai Specialization*

## Leadership Experience

<b>President   ShARE IIT Kharagpur Chapter</b>	<b>Aug'19- May'20</b>
<ul style="list-style-type: none"><li>Led a <b>team of 30+ members</b> working across <b>5+ networks</b> in india and organised workshops on case studies, economics and analytics</li><li>Strategized growth of ShARE, collaborated with Corporate and initiated partnership with firms for team to work on real live projects</li></ul>	
<b>Vice-Captain, Case Study   RK Hall of Residence   IIT Kharagpur</b>	<b>Jul'18-Apr'18</b>
<ul style="list-style-type: none"><li>Led a <b>team of 20 member</b> for inter-hall case study team of RK Hall in GC 2018-19, conducted workshops to enhance technical capabilities</li><li>Created a case repository and organized case study workshops to familiarize the team with different case solution approaches</li></ul>	

## AWARDS AND ACHIEVEMENTS

Cleared the <b>B.Math</b> examination conducted by <b>Indian Statistical Institute-2016</b> among 2 lakh of appearing candidates ( <b>99.9 percentile</b> )
Secured <b>Gold</b> in <b>Mathematics Olympiad</b> and <b>Silver</b> in <b>Ad Design competition</b> in General Championship, Technology Gymkhana in 2017
Cleared <b>NCFM financial risk management paper</b> and secured 92 percentage conducted by National Stock Exchange, Mumbai

## EXTRA CURRICULAR ACTIVITIES

<b>Tech</b> : Being the <b>Secretary, Technology</b> conducted workshop related to tech for General championship, managed <b>budget of INR 20000</b>
<b>Social</b> : Participated in <b>Blood donation camps</b> and Awareness Rallies conducted by Bharat Viskas Parishad on National Blood Donation Day
<b>Fundraiser</b> : Raised a fund of <b>INR 60000</b> as part of <b>Phonathon 3.0</b> , an initiative to get an financial aid for development of the institute