



## EDUCATION

Year	Degree/Exam	Institute	CGPA/Marks
2021	B.TECH	IIT Kharagpur	8.52 / 10
2017	AISSE	CBSE	93.2%
2015	AISSE	CBSE	10 / 10

## INTERNSHIPS

<b>ABInbev   Operations Analytics Intern   Bangalore</b>	<b>May 2020 - Jul 2020</b>
<ul style="list-style-type: none"><li>Developed an <b>Overdue Forecasting Model</b> which takes into account the Covid-19 crisis and adjusts its' prediction accordingly</li><li>Model predicts the <b>forecast of rolling 12 months</b> with an accuracy of &gt;90% for <b>UK and Germany</b> even after the crisis</li><li>Created a <b>Customer Profile Data</b> which categorizes customer on different risk levels based on their previous payment record</li></ul>	
<b>Legal Data Analytics   Research Intern   IIT Kharagpur</b>	<b>May 2019 - Jul 2019</b>
<b>Principal Investigator:</b> Prof. Saptarshi Ghosh (Computer Science and Engineering Department, IIT Kharagpur) <ul style="list-style-type: none"><li>Prepared a <b>dataset comprising over 30 million+ data</b> containing different stage wise criminal cases from last 30 years</li><li>The dataset contains the caseid, state, district, year and the court the case was registered in, along with their pending duration</li><li>Collected the data from the official website: <a href="https://njdg.ecourts.gov.in/njdgnew/index.php">https://njdg.ecourts.gov.in/njdgnew/index.php</a> using <b>web scrapping</b></li><li><b>Calculated the correlation matrix</b> of different states with the stagewise criminal case type and pending duration</li></ul>	
<b>Research Guruji (Work From Home)   Research Intern   Internshala</b>	<b>Jun 2019 - Jul 2019</b>
<ul style="list-style-type: none"><li><b>Summarized papers</b> on Spelling Correction model for end to end speech recognition, Assessing the factual accuracy of Generated Text, Improving Language Understanding by Generative Pre-Training &amp; Decision Trees &amp; NNs for Learning to Rank</li><li><b>Wrote a survey paper</b> named Spelling Correction model for Speech Recognition and using it for Generative Pre-Training</li></ul>	

## PROJECTS

<b>Predict next word using Statistical and Neural Language Modelling   IIT Kharagpur</b>	<b>Aug 2019</b>
<b>Principal Investigator:</b> Prof. Sudeshna Sarkar (Computer Science and Engineering Department, IIT Kharagpur) <ul style="list-style-type: none"><li>Tokenized the corpus into sentences and words, performed case folding on the corpus and removed stopwords from the corpus</li><li>Created 4 <b>language models</b>, i.e., uni, bi, tri and four-gram, and used these models to predict next word of given context</li><li>Used <b>LSTM Language modelling</b> to train different word vectors and for predicting the next word of the given context</li></ul>	
<b>Part of Speech (POS) tagging using Conditional Random Field (CRF)   IIT Kharagpur</b>	<b>Aug 2019</b>
<b>Principal Investigator:</b> Prof. Sudeshna Sarkar (Computer Science and Engineering Department, IIT Kharagpur) <ul style="list-style-type: none"><li>Trained a CRF model using the available <b>sklearn crfsuite</b> wrapper and used <b>Universal Dependency Hindi corpus</b> for training</li><li>Introduced new features and <b>tuned the hyperparameters</b> to achieve the maximum possible <b>F-score</b> on the training set</li><li>Calculated <b>Precision, Recall, F-score</b> per unique POS tag on the train and the test set and overall accuracy of train and test set</li></ul>	
<b>Ranking of documents' of different cases   IIT Kharagpur</b>	<b>Jun 2019- Jul 2019</b>
<b>Principal Investigator:</b> Prof. Saptarshi Ghosh (Computer Science and Engineering Department, IIT Kharagpur) <ul style="list-style-type: none"><li><b>Preprocessed document text</b> of query by applying NLP preprocessing techniques, viz. stemming, tokenizing, case folding, etc.</li><li>Learnt the basics of <b>Information Retrieval Manning</b>, i.e., <b>TF-IDF weighting</b>, <b>TF-IDF cosine scores</b>, boolean model, etc.</li><li>Calculated the <b>cosine similarity</b> of a query with different documents so as to predict the chance of winning or losing the case</li></ul>	

## AWARDS AND ACHIEVEMENTS

<ul style="list-style-type: none"><li><b>Smart Odisha Hackathon</b> (Data Analytics) finalist and among the Top 80 teams out of 1500 teams at National Level in 2018</li><li>Secured state rank 2 and All India Rank - 4 in <b>International Talent Hunt Olympiad, 2014</b> conducted by Silverzone Foundation</li><li>Secured state rank 21 in West Bengal, Andaman and Nicobar Zone in 1st level of <b>17th SOF National Science Olympiad, 2014</b></li></ul>	
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## SKILLS AND EXPERTISE

Data Analysis | Data Visualizaton | Data Wrangling | Natural Language Processing | Machine Learning | Programming in C,C++, Python | Data Mining | Probability and Statistics | Deep Learning | | Web Scrapping | Tableau | Advanced Excel | Power BI

## CERTIFICATIONS

<b>Deep Learning Specialization   deeplearning.ai   Coursera</b>	<b>April 2020</b>
<b>Deep Learning Specialization: Master Deep Learning, and Break into AI (By Dr. Andrew Ng)</b> <ul style="list-style-type: none"><li>This five course specialisation covered <b>Neural Networks and Deep Learning, Improving Deep Neural Networks: Hyperparameter tuning, Regularization and Optimization, Structuring Machine Learning Projects, Convolutional Neural Networks and Sequence Models</b>; working on case studies from healthcare, autonomous driving, music generation, etc.</li></ul>	

## COURSEWORK INFORMATION

Natural Language Processing | Probability and Statistics | Programming and Data Structures | Machine Learning | Neural Networks and Deep Learning | Convolutional Neural Networks | Design and Analysis of Algorithms | Information Retrieval | Computational Modelling of Multiphase Reactive Flows | Thermodynamics | Fluid Mechanics | Design Optimization

## EXTRA CURRICULAR ACTIVITIES

<ul style="list-style-type: none"><li>Secured runner's up position in <b>fresher's Table Tennis Tournament</b> held at IIT Kharagpur in 2017</li><li>Represented <b>LBS Hall of Residence</b> and <b>Meghnad Saha Hall of Residence</b> in <b>Inter Hall Table Tennis Tournament</b></li><li>Represented DPS, Farakka in <b>Inter Dps National's Table Tennis Championship</b> and was the <b>Captain</b> of Under 14's team</li><li>Represented Delhi Public School, Farakka in <b>Inter School Football Championship</b> and served as the <b>Captain</b> of the Team</li></ul>	
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