

# Anshuman Chakravarty

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## EDUCATION

### IIT KHARAGPUR

INTEGRATED MS IN  
MATHEMATICS & COMPUTING  
July 2015 - April 2020  
CGPA: 8.68 / 10.0

### D.A.V. MODEL SCHOOL

Jul 2013 - April 2015  
Class XII CBSE : 96.4%

## COURSEWORK

### STATISTICS

Probability and Statistics  
Statistical Inference  
Computational Statistics  
Regression and Time Series  
Stochastic Processes

### CS

Design and Analysis of Algorithms  
Object Oriented Systems Design  
Database Systems  
Computer Networks\*

### MISCELLANEOUS

Linear Algebra  
Operations Research  
Optimization Techniques  
Multiobjective Programming\*

## SKILLS

### PROGRAMMING

Bash • C++ • SQL • Javascript  
Python (Numpy, Pandas, Scikit, NLTK)  
Tableau • Git • Flask • Doccano

## COMPETITIONS

### Coding Hackathon

**Winners**, Inter-IIT Tech Meet  
December 2019

### Excavate Data Science Challenge

**Winners**, Composit College Fest  
March 2018

### Accenture Innovation Jockeys

**Winners** for the Category - Detecting  
Fraud and preventing Business  
Malpractice, October 2016

## INTERNSHIPS

### BIDGELY | SOFTWARE ENGINEERING INTERN

May 2019 - July 2019 | Bangalore

Performed experiments to cluster similar homes to gain relevant insights, using rules derived from the dwelling type, dwelling size, location and heating type of users by modifying the UML class and sequence diagrams, i.e. the Object Model and reduced the estimated time to run a clustering experiment using derived rules, from 1-2 weeks to within a week through automation

### SCHLUMBERGER | DATA SCIENCE INTERN

May 2018 - July 2018 | Pune

- Applied text analytics techniques on Purchase Order(PO) description data for word feature representation and used Random Forest Classifier to predict possible Part Number from preprocessed text descriptions which increased the accuracy by 11%
- Applied One Class SVM algorithm on the part descriptions to separate out newly or rarely purchased parts from those which are bought on a daily basis
- Implemented Louvain Community Detection algorithm to cluster the detected outliers based on their part descriptions and assign the part numbers accordingly

### IISER KOLKATA | RESEARCH INTERN

May 2017 - July 2017 | Kolkata

- Studied the theory behind curve fitting and derived the twelve types of Pearson's Curves from the ODE for unimodal distributions which were used to make inferences on sample data based on the calculation of defined kappa criterion
- Calculated parameters of the specific curve type which would be a reasonably good fit for the above-mentioned sample dataset

## PROJECTS

### DOMESTIC VIOLENCE CASES - ANALYSIS

Omdena in association with Reddot Foundation

During Covid-19 | May 2020 - June 2020

Our team applied topic modelling techniques on extracted reports of Domestic Violence from social media, news articles and government websites to identify trends pre and post lockdown along with demographic information by implementing Named Entity Recognition techniques.

### REDDASH | MICROSOFT CODE FUN DO

October 2018

- Built a dashboard to help volunteers monitor a disaster affected environment
- Used the Microsoft Azure Custom Vision API to predict whether an uploaded image depicted a natural disaster with some confidence, trained on flood images as of now
- Scraped geocode data from NRT Global Flood Mapping of areas under danger due to flood and represented it on a map on the dashboard using pyplot
- Built a chat app for communication between victim and rescuer using Twilio API

### ADLAS | SOFT COMPUTING TOOLS IN ENGINEERING

Jan 2017 - April 2017

- Monitored user behaviour to recognize patterns in launching and running applications based on start and end time, to discover intent of user
- Used Self Organizing Feature Maps for clustering the applications
- Automated the process of launching applications which belonged to the same cluster, once the intent of the user was detected