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
Operating Systems
Database Systems
Computer Networks*

MISCELLANEOUS
Operations Research
Optimization Techniques
Multiobjective Programming*
Linear Algebra

SKILLS

PROGRAMMING
C • C++ • SQL • AWS (S3, Redshift)
Python (Numpy, Pandas, Scikit, NLTK)
Shell •Git • Java (Spring Boot)

COMPETITIONS

Coding Hackathon
Winners, Inter-IIT Tech Meet
December 2019

Excavate Data Science Challenge
Winners, 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