

Alwin Anto

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EDUCATION

University of Texas at Austin

Aug 2024- Present

- Masters in Computational Science Engineering and Mathematics

Indian Institute of Technology (IIT) Kharagpur

July 2017- May 2022

- Integrated Btech (Civil Engineering) and Mtech (Structural Engineering) - **CGPA: 9.22/10.0**
- Minor Degree in Mathematics and Computing - **CGPA: 8.29/10.0**

PROJECTS

IIT Kharagpur

Kharagpur

Undergraduate projects

July 2017 - May 2022

- [Mtech Thesis]- Simulated concrete beam and column behaviour under fire using Concrete Damage Plasticity Model in **Abaqus**. Used **Eurocode 2** for stress strain relations and **ASTM E119** to model the temperature
- [Mtech Thesis]- Used the simulation results to train **regression models** like RANSAC, Huber etc to predict the load capacity. Achieved R^2 value of **0.99** for column and beam strength prediction
- [Btech project] - Modified existing algorithms to solve equations of motion symplectically for **molecular dynamics simulation**. Simulated the MKT thermostat in C incorporating trotter factorisation.

WORK EXPERIENCE

Piramal Finance

Mumbai, Maharashtra

Data Scientist, Business Intelligence Unit (Risk Analytics)

Jun 2022 - Jun 2024

- * Developed **XGBoost** model for underwriting loans to **New to Credit customers** by ensembling variables based on geo intelligence and online payment trend. Achieved a **KS score** of 32
- * Part of 3 member team that built a state of the art **model monitoring dashboard** in Powerbi to track various metrics like PSI, CSI, **bivariate shift**, risk metrics as early warning signal, custom model score etc.
- * Revamped and lead a team of 4 in making an **anomaly scorecard** to solve the issue of policy cuts being univariate and current credit scorecard being derived solely from bureau based variables
- * Awarded for the contributions in creating the NTC underwriting framework at the annual office offsite at Goa by Jayaram Sridharan (MD Piramal Finance), BIU Head, CTO etc (picture)

TECHNICAL SKILLS

Software/Languages: Python (pandas, scikit learn etc.), AWS services (Sagemaker, lambda, Glue and S3)

Relevant course work: Linear Algebra, Prob and Stats, Monte Carlo Simulations, Stochastic Processes (ongoing)

AWARDS AND ACHIEVEMENTS

Department Topper: Highest CGPA at the end of 3rd, 4th and 5th year in a batch of 75 students in Civil Engineering. Recipient of J.C Ghosh Memorial Endowment Prize and B.L Nagpal Memorial Prize for academic excellence

Open IIT Data Analytics Gold: Part of 6 member team that bagged **1st** position in the intra-college competition. Estimated the optimal stock and order amount to maximise the profit of a pharmacy.

NFLAT 2015: All India rank 4 in the National Financial Literacy Awareness Test conducted by National Centre for Financial Education with more than 2 lakh participants

EXTRA CURRICULAR

Teaching Assistant : Assisted Prof. Nirjhar Dhang (CE41028, Structural health monitoring) and Prof. Puneet Kumar Patra (CE39007, Concrete Laboratory) undertaking tutorial discussions, lab experiments and grading assignments.

NSS IIT Kharagpur : Volunteer for two years, selected as one of the top two performers in the NSS Winter camp 2018 and won the silver medal in essay writing conducted in association with Gandhi Jayanti 2019.

University groups : Part of global think tank ShARE IIT Kharagpur chapter (2017-2019) and Associate member of Megalith 2018 (Annual Civil Engineering Fest) that had a footfall of 1000+ participants

Mountaineering : A grade in the 26-day course from ABVIMAS, Manali (Himalayas) learning rock, snow & ice craft.