Parth Laturia

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EDUCATION _

Indian Institute of Technology Bombay

2018-2022

- Bachelor of Technology (with Honors) in Computer Science and Engineering, CPI: 9.59/10.00
- Minor in Artificial Intelligence and Data Science

Disha Delphi Public School

2016-2017

• CBSE Intermediate/+2, Percentage: 95.2 %

Gyan Mata Vidya Vihar

2006-2015

CBSE Matriculation, CPI: 10.00 / 10.00

PATENTS AND PUBLICATIONS

- Patent: "Method to auto-generate a video to illustrate a procedural document" filed in the US (US17/661,614)
- Publication: Recipe2Video: Synthesizing Personalized Videos from Recipe Texts published at IEEE Winter Conference on Applications of Computer Vision (WACV), Waikoloa, Hawaii, 2023
- Publication: SPEAR: Semi-supervised Data Programming in Python published at the Conference on Empirical Methods in Natural Language Processing (EMNLP), Abu Dhabi, 2022
- Publication: How to play Notakto: Can Reinforcement Learning achieve optimal play on combinatorial games? published at the Association for the Advancement of Artificial Intelligence (AAAI), Virtual, 2021

Research Experience _

Semi Supervised Data Programming in Python (SPEAR) —Deep Learning

Spring 2021

Guide: Prof. Ganesh Ramakrishnan — RnD Project

- IIT BOMBAY
- Developed a Labeling Function based module to reduce **Annotation efforts** and improve the correctness metrics
- Trained a High level Supervision encompassing 4 algorithms to learn from Rules generalizing Labeled Exemplars
- Implemented a rule denoising algorithm based on Implication loss targetting F1 Score, thus publishing paper at EMNLP

Winning Notakto with Reinforcement Learning —Reinforcement Learning

Summer 2020

Research Intern under Prof. David Crandall, Prof. Saul Blanco

Indiana University, U.S.A

- Co-Authored a paper titled "How to play Notakto?" published in AAAI-Reinforcement Learning & Games, '21
- Trained UCB based RL model from scratch using 1 Million games of self-play to maximize win in Notakto
- Incorporated Monte Carlo Policy using Every Visit Approach and NN binarization for space-time optimization

Professional Experience

Morgan Stanley

July 2022 - Present

Quantitative Research Strategist

Mumbai. India

- Responsible for eFX Internalization framework, facing a daily flow of \$9-10 Billion, generating \$120-130K daily
- Inspecting Algo and Voice traders' orders using backtest and prod data in Q to improve principal Volume and PnL
- · Designed event-based mid predictor for US Treasuries market-maker using microstructural data and LOB features
- Abstracted codebase in VSCode to handle 11 instruments generating daily PnL of \sim **\$2K**; tuned sources, amount of training data, and prediction horizon using **ROC-AUC** and F1 Score to predict **5Y UST** Futures' prices
- Improvised a **mean reversal** alpha using Volatility, Open Interest Skew around out of the money call, put **yield**; secured an annualized sharpe of 1.22 and total trading PnL of **\$12M** over a backtest period of 5 years
- Designed robust infrastructure to fetch and process Futures data of 6-7 asset classes for end-of-day alpha trading
- · Structured an execution algorithm in Python using UST Futures top-of-book fields to fill orders at right prices

Doc2Video for Personalized Consumption —Computer Vision

Summer 2021

ML Intern under Balaji Vasan Srinivasan

Adobe Research Lab, Bangalore

- Earned a patent and co-published a paper titled "Recipe2Video" at WACV 2023; open access at CVF
- · Automated conversion of instructional document to illustrative video tailored to user expertize and choices
- Embodied Clustering, Weak Supervision and Question Answering Modules to automate the modality selection
- · Utilized GTTS to generate voice over and ffmpeg, moviepy to stitch the coherent clip pieces into final video

ATM's Predictive Maintenance —Process Development

Winter 2020

Data Science Intern under Prof. Siuli Mukhopadhyay

Bank of Baroda

- Built a "Smart ATM", warning prior to failures to reduce service downtime using Logistic Regression and Cross Validation
- Studied classification based Failure Prediction to extract 2-sized Pattern based Features for data from 6 zones

Noise Filtering by Stethoscope — Machine Learning

Winter 2019

ML Intern under Adarsha K

Ayudevices, now Ayusynk (supported in Shark Tank, India)

- · Conducted literature survey and tested algorithms for canceling noise from the Developed Digital stethoscope
- Executed Recursive Least Square and Least Mean Square Algorithm to filter out noises from the heart sound
- Collectively Implemented Deep learning RNN model for classifying Heart sounds as Normal or Abnormal

Olympiads and Academic Achieve	MENTS
• Cleared Chartered Financial Analyst (CFA) Level 1 scoring 90+ per	centile (2023)
A Life Time Member of the Mensa High IQ Society, India Chapter	(2022)
 Awarded AP Grade (top 1%) for stellar performance in Optimization 	
• Accomplished a perfect $10.0/10.0$ performance index (SPI) in the s	pring semester of the 3rd year (2021)
 Secured All India Rank 3 in JEE Mains out of 1.2 Million candid 	ates (2018)
 Achieved All India Rank 29 in JEE Advanced out of 163K candid 	,
Awarded Gold Medal for being amongst the top 35 in India in INC	
Recipient of the Kishore Vaigyanik Protsahan Yojana (KVPY) fello	
• Earned the National Talent Search Examination (NTSE) fellowship	` ,
• Amongst the top 12 in India to get selected for 20-day Orientation-	Cum-Selection Camp for IAO, HBCSE (2015)
KEY PROJECTS	
Developing Adversarially Robust Attacks	Spring 2021
Guide: Prof. Sunita Sarawagi Course Project • Analyzed FGSM and PGD based Attacks by pruning and varying me	Advanced Machine Learning
Modified TRADES defense by changing the perturbation algorithm	•
SCLP Based Compiler	Spring 2021
Guide: Prof. Uday Khedker Course Project	Implementation of Programming Languages Lab
• Implemented scanning, parsing, AST, TAC and RTL stages with vis	
• Ensured that illegal tokens, syntax errors and semantic errors in the	e C-like compiler are robustly flagged
Restaurant Management System	Spring 2021
Guide: Prof. Umesh Bellur Course Project	Database and Information Systems Lab
• Established a Robust System using ER Diagram and BCNF Normaliz	
• Employed PostgreSQL with PgAdmin4 to maintain Dynamic Data	
 Validated Atomicity, Time Series Analytics and Automated Dish Re Buffer Overflow Attacks and Defenses 	·
Guide: Prof. Bernard Menezes Course Project	Autumn 2020 Computer Architecture
 Demonstrated the Stack and Heap based buffer overflow exploits a 	·
 Performed a case study on the Code Red Worm exploit paired with 	
Low-Dose Tomographic Reconstruction	Spring 2020
Guide: Prof. Ajit Rajwade Course Project	Advanced Image Processing
Guide: Prof. Ajit Rajwade Course Project • Reconstructed test images from low dose projections and Re-irradia	Advanced Image Processing ation in regions of significant changes
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