Goutham Veeramachaneni

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EDUCATION

Dartmouth College (Sep 2021 – June 2025, expected) **Hanover, NH**

Bachelor of Arts: Computer Science and Mathematics

- **GPA:** 3.88 / 4.00
- **Coursework:** Combinatorial Game Theory (Graduate), Algorithms, Machine Learning, Probability, Reinforcement Learning, Graph Theory, Combinatorics, Honors Abstract Algebra and Real Analysis

WORK & LEADERSHIP EXPERIENCE

IMC Trading (June 2024 – Aug 2024) **Chicago, IL**

Quantitative Trader Intern

- Predicted event volatility for agricultural commodities, achieving a 35% accuracy improvement by analyzing temporal trends, seasonality, trade data, and order flow
- Developed an algorithmic trading bot for a simulation, improving execution speed by 10x and enhancing strategy effectiveness through optimized pricing, automated delta hedging, and diming
- Analyzed trade data from price improvement auctions, classified bad trades, and reduced losses from delta slippage by 15% through dynamic offset selection based on market interest
- Learned and applied options theory in market making simulations, gaining hands-on experience in trading strategies, taking advantage of order flow information, and position management

Leadspace (June 2022 – Aug 2022) **Hod Hasharon, Israel**

Machine Learning Engineer Intern

- Collaborated with the data team to fix inconsistencies in data cleaning and ensure seamless feature functionality during the migration of models from Jupyter Notebooks to Databricks
- Enhanced predictive model accuracy by 30% through strategic hyperparameter tuning and optimization across 50+ large-scale customer datasets
- Reduced hyperparameter search runtime by 90% by implementing Bayesian optimization, significantly boosting efficiency of predictive models across the entire company for high-volume retail data

Dartmouth Machine Learning Lab (Sep 2022 – Sep 2023) **Hanover, NH**

Research Assistant

- Co-authored paper "Deciphering Stereotypes in Pre-Trained Language Models," accepted to EMNLP 2023
- Developed sentence bias detection models by fine tuning BERT and T-5 models for sequence classification, achieving an accuracy of 90% on challenging datasets such as CrowS-Pairs
- Conducted sentence generation experiments on the GPT-2 and GPT-J models, systematically altering stereotypical and anti-stereotypical prompts, analyzing generated text for bias, grammatical accuracy, and sentiment polarity

Department of Mathematics, Computer Science, Dartmouth College (Jan 2023 – June 2024) **Hanover, NH**

- Teaching Assistant (Deep Learning Generalization and Robustness, Linear Algebra, Machine Learning, Data Mining): Graded assignments, exams, held office hours, and review sessions
- Grader (Multivariable Calculus, Probability): Graded weekly homework assignments

SKILLS, ACTIVITIES & INTERESTS

Technical Skills: Python (scikit-learn, numpy, pandas, huggingface)
Interests: Poker, Mountain and Road Biking, Badminton, Cricket, Zeta Psi Fraternity (Member)