

# SIDDHANT SUKHANI

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## EDUCATION

### Stanford University

2025–2027

*Masters of Science in Computational Mathematical Engineering (Mathematical Computational Finance Track)*

### Georgia Institute of Technology

2022–2025

*Bachelor of Science in Applied Mathematics and Computational Data Analysis (Summa Cum Laude)*

GPA: 3.97

## PUBLICATIONS

### Words That Unite The World (First Author - NeurIPS Datasets and Benchmarks 2025) Aug 2024 – Present

- Scraped monetary policy communications from 27 central banks across 28 years (380k total sentences, 10+ million words) to develop language modeling methods that demonstrate interconnectedness of economic policy.
- Lead a team of 100+ students to analyze annotated 25k sentences across 25 banks and developed 133 page annotation guide (unique for each bank), constructing of one of the largest training corpora within the monetary policy space.
- Evaluated 16 pretrained and large language models over 15,075 benchmarking experiments with zero shot, few shot & annotation guide prompting, utilizing systematic methods to fine tune language models for optimal performance.

### FinCap (First Author - IEEE/CVF International Conference on Computer Vision 2025) May 2025 – Present

- Developed a framework to evaluate 5 multimodal LLMs (MLLMs) for topic-aligned captioning in financial videos using 7 modality combinations across 5 topics (main recommendation, sentiment, purpose, visual analysis & entity recognition).
- Coded a 624-video dataset and benchmarking pipeline to experiment with MLLM capabilities for action+ticker extraction and generation of topic-aligned captions, evaluated using GE-Val (LLM as a judge method).
- Discovered that adding more input modalities often reduced performance across topics, implying that less information can improve performance and results significantly compared to previous benchmarks on similar topics.

### SubjECTive-QA (Co-first Author - NeurIPS Datasets and Benchmarks 2024)

Aug 2023 – Dec 2024

- Pardawala, H.\*, Sukhani, S.\*, Shah, A., Kejriwal, V., Pillai, A., Bhasin, R., DiBiasio, A., Mandapati, T., Adha, D., & Chava, S. (2024). *SubjECTive-QA: Measuring Subjectivity in Earnings Call Transcripts' QA Through Six-Dimensional Feature Analysis*.

- Awards:** President's Undergraduate Research Award, College of Sciences Award, Student Government Award.

## WORK EXPERIENCE

### Accel Partners

Jan 2026 – June 2026

*Accel Fellow*

*Palo Alto, CA*

- Accel Fellow in a selective cohort working on startup strategy, fundraising mechanics, and early-stage execution.

### Financial Services Lab, Georgia Institute of Technology

May 2024 – May 2025

*Fintech Fellow & Undergraduate Research Assistant*

*Atlanta, GA*

- Created a backtrading engine for computation of 50+ risk metrics, stress tested using Monte Carlo simulations.
- Designed methods to scrape SEC-EDGAR filings (10-K, 10-Q, 8-K) and identify credit agreements using NLP models.

### Prabhudas Liladhar

Jan 2024 – Jul 2024

*Quantitative Researcher*

*Remote*

- Collaborated with quantitative traders and engineers to develop a contribution-attribution model for mutual funds.
- Enhanced relative value analysis for mutual funds, improving analytical systems by 22%.
- Developed a five-layer mutual fund analyzer using advanced statistical, quantitative, and econometric models.
- Generated a novel trading strategy and ML-based tool achieving 13.5% alpha with a team of 15 researchers.

### Mathematics Department, Georgia Institute of Technology

Aug 2023 – Dec 2024

*Honours Undergraduate Teaching Assistant*

*Atlanta, GA*

- Taught honours-level differential equations and multivariable calculus to classes of 50+ students biweekly.

## RESEARCH AND PROJECTS

### Multi-Asset Dynamic Portfolio (MADP)

May 2025 – Aug 2025

- Implemented quantitative trading strategy to dynamically allocate funds between equities, debt and commodities.

### Markov Chain Monte Carlo Stoploss strategy

May 2025 – Aug 2025

- Utilized stochastic calculus and Brownian motion to capture volatility clustering and mean reversion for computation of probabilistic stop-loss thresholds and reduction of Maximum drawdown in institutional client and personal portfolio.