Aaditya Saha

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Programming Languages and Skills: Python, C++, VBA, PyTorch, OpenCV, Tensorflow, Excel Modeling, Figma, Prototyping, Webscraping, Pandas, Sklearn, Streamlit, Literature Analysis, Leadership & Collaboration, Presentations

EDUCATION

Stanford University (Class of 2026 - 3.6 GPA)

- ***Biology* major** with *Computational/Systems* concentration, ***Management Science & Engineering* minor**
- Classes: Medical Device Regulation (MS&E256), Life Sciences Stock Analysis (INDE209), Finance (MS&E145), Genetics (BIO82), Systems Biology (BIO188), Biomolecule & Cell Structure (CS279), Biochemistry & Molecular Biology (BIO83), Molecular Biology Algorithms (CS274), Supply Chain (MS&E262), Accounting (MS&E140), Organizational Theory (MS&E180), Data Mining (STATS202), Econometrics (ECON102B), Machine Learning (CS229)

WORK EXPERIENCE

Stanford School of Medicine (Institute for Stem Cell Biology and Regenerative Medicine) **Palo Alto, CA**

Research Assistant under Dr. Vittorio Sebastiano in OB/GYN department *March 2025 - Present*

- Inducing differentiation of granulosa cells for the purpose of developing follicular assembloids, for in vitro gametogenesis
- Leading project for Stanford Biology Major Capstone, as part of NIH grant

Indus Net Technologies **Kolkata, India**

Venture and M&A Strategy Intern *July 2023 - August 2023*

- Working closely with CEO (Abhishek Rungta) to create a "Holdco" wing to invest, acquire, and incubate Indian startups
- Developing a new strategy for due diligence into markets, sourcing companies, and financing investments through SPV's
- Continuing observation and minor strategy involvement in first portfolio investment in FinTech insurance company

R42 Ventures **Virtual**

AI Fellow *June 2023 - September 2023*

- Worked in operations and development for an R42 portfolio company (superbio.ai) building an AI application
- Learned about various aspects of Life Science/Longevity Venture Investing, e.g. deck analysis and company building

Stanford University **Palo Alto, CA**

Research Assistant under Dr. David Camarillo in CamLab *September 2022 - March 2023*

- Involved in testing, prototyping, literature review, video analysis, and market analysis

RESEARCH PROJECTS

Massachusetts Institute of Technology | (PyTorch, OpenCV) **Boston, MA**

*Research Assistant under Dr. Markus Buehler in LAMM lab through Research Science Institute **(RSI)*** *Jun 2021 - Oct 2021*

- Created the first-ever application of Generative AI for creating bio-inspired materials, inspired by diatom microstructures
- Onboarded onto research team, learned Python and advanced artificial intelligence concepts in under 6 weeks
- Named 2021 US Department of Defense Scholar, 2022 Regeneron International Science & Engineering Fair Finalist

Shock-Absorbing Composite Prototype for Sports | Publication | (ImageJ, Excel Analysis) **Atlanta, GA**

National & International science fair award-winning Independent Research *September 2017 - May 2022*

- Developed material prototype for injury protection that performs 10-50% better than commercial materials in all weather
- Won ISEF 4th Place Grand Award in 2019, 2021 National Junior Science & Humanities Symposium Category 1st Place

EXTRACURRICULAR ACTIVITIES AND PROJECTS

Nanobiotix Stock Case Study for INDE 209 | (Biotech Stock Analysis, DCF Modeling) *Fall Quarter, 2023*

- Collaborated with PhD & MD students to analyze clinical trial of a first-in-class cancer drug and company financials
- Team correctly predicted the outcome of catalyst, BUY recommendation would lead to a 40% gain in the ensuing month

FITBONE Device Case Study for MS&E 256 | (Understanding FDA 510k process) *Spring Quarter, 2024*

- Led team of 4 undergraduates to write a 20 page report and to give a 15 minute presentation analyzing the regulatory, clinical, and health economic aspects of the Fitbone™ Intramedullary Lengthening System

Basketball Outcome Prediction Modeling | (Data Analytics, Regression Modelling) | Write up *November 2021 - Present*

- Developed model to predict the outcome of basketball games statistical modeling techniques, achieved 68% accuracy
- Placed in Top 2k in 2022 ESPN March Madness Bracket Challenge (out of 17m entries)

Stock Prediction Machine Learning Model | (Webscraping, Pandas, SK Learn, Streamlit) | Github *Winter Quarter, 2022*

- Developed profitable trading strategies using machine learning techniques for predicting Tech/Pharma stock movement
- Built backtesting algo to measure effectiveness of trading strategies using time-series data collected from Yahoo Finance.

Interests: Watching and playing sports with friends, Scouring & posting on X, Poker, Golf, Tutoring