Stanford



# Aadesh Salecha

Masters Student in Computer Science, admitted Autumn 2024

Resume available Online

## Bio

### BIO

Aadesh Salecha is a Founding Engineer at Hyfin (hyfin.capital), where he is building GAIA, a platform that synthesizes asset performance and market data to power clean energy loan origination. He designs agentic data pipelines that combine LLMs and web scraping to create data for a new asset class with no track record, and risk intelligence tools aimed at closing the $4T+ clean energy financing gap across South Asia and Africa.

Aadesh completed his MS in Computer Science at Stanford in 2026. At Stanford, he worked as an AI/ML researcher with Prof. David Lobell and the Center on Food Security and the Environment at the Stanford Doerr School of Sustainability, building geospatial machine learning pipelines on Google Earth Engine, Landsat, and Sentinel-2 imagery to detect tree species across cropland in the Global South. This work supports verification of the 5+ Gt CO2/year sequestration potential of integrating trees into global cropland. He also won Stanford's first Green AI Hackathon with a geothermal site prediction system built on AlphaEarth satellite embeddings (findgeothermal.com).

Earlier at Stanford, he worked with Prof. Johannes Eichstaedt on applying cognitive science and psychometrics to evaluate large language models. Their paper showing that LLMs exhibit human-like social desirability biases was published in PNAS Nexus and covered by WIRED.

Previously, Aadesh was an AI/ML Engineer at Amazon (AWS SageMaker HyperPod), where he built an agentic AI system to auto-resolve ML infrastructure failures and reduced GPU energy waste by about 200 kg CO2e per day. Before Stanford, he was a Senior Software Engineer on the Financial Platform team at DraftKings. He received his BS in Computer Science, summa cum laude, from the University of Minnesota, where he researched misinformation spread with Prof. Jaideep Srivastava.

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## Publications

### PUBLICATIONS

- **A computational model of reward learning and habits on social media.** *Nature communications*
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- **Media hype regarding psychedelic treatments for depression and PTSD from 2017 to 2024.** *Scientific reports*

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- **No Good Time to Negotiate? Effective Track Two Dialogue in Protracted Israel-Palestine Conflict Escalation** *CONFLICT RESOLUTION QUARTERLY*
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- **Monitoring the opioid epidemic via social media discussions.** *NPJ digital medicine*
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- **Large language models display human-like social desirability biases in Big Five personality surveys.** *PNAS nexus*
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- **Influence of emotions on coping behaviors in crisis: a computational analysis of the COVID-19 outbreak** *JOURNAL OF COMPUTATIONAL SOCIAL SCIENCE*
  Xu, H., Sudheendra, S., Huh, J., Salecha, A., Srivastava, J.
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- **The Language of Conflict Transformation: Assessing Psychological Change Patterns in Israeli-Palestinian Track Two Interactive Problem Solving** *NEGOTIATION AND CONFLICT MANAGEMENT RESEARCH*
  Fink, O., Graf, W., Subrahmanya, S., Salecha, A., Eichstaedt, J. C.
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