

# Samir Kadariya

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## EDUCATION

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### Massachusetts Institute of Technology

Cambridge, MA

*BS. Artificial Intelligence and Decision Making, BS. Mathematics (GPA: 4.8)*

*June 2026*

**Relevant Courses** *Stochastic Processes, Design and Analysis of Algorithms, Probability, Machine Learning, Linear Algebra*

## EXPERIENCE AND RESEARCH

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### SESCO Enterprises LLC

Pittsburgh, PA

*Quantitative Research Analyst Intern*

*May 2025 – Present*

- Built and deployed a FastMCP server that plugs into Claude Code to auto-reconstruct and edit generator offer curves on demand, cutting policy-revision time from hours to minutes.

*Quantitative Research Analyst Intern*

*May 2024 – Aug. 2024*

- Developed a cutting-edge tool that significantly enhances the accuracy of offer policy generation by implementing advanced statistical models for predictive analytics, leveraging **Markov decision models** and **Bayesian inference**, transforming a previously manual process handled by a team of employees.
- Collaborated with senior developers to refine algorithms, improving accuracy and efficiency of data-driven insights.

### MIT Political Science

Cambridge, MA

*Undergraduate Researcher*

*May 2023 – May 2024*

- Achieved a **90% accuracy rate** in matching historical tariff items with HS codes by engineering a cutting-edge NLP algorithm using **Huggingface** and **GPT API**, and developed a front-end website to take in an image and output the corresponding HS code and its confidence.
- Increased prediction speed and precision by **50%** by enhancing a machine learning model with parallel processing and caching.

### MIT Computer Science and Artificial Intelligence Lab

Cambridge, MA

*Undergraduate Researcher*

*Jan. 2023 – May 2023*

- Closed the simulation-to-reality gap in robot behavior by innovating in reinforcement learning with Python and **PyTorch**, and training models using **OpenAI's PPO** algorithm.
- Showcased cloud infrastructure skills via **Nvidia's Isaac Gym** and MIT's SuperCloud by conducting advanced robotics research.

### Eachday.health

Pittsburgh, PA

*Data Analyst Intern*

*Jan 2022 – Aug. 2022*

- Catalyzed a successful **\$225k** capital raise by presenting pivotal financial insights to SOSV's CFO, derived from robust forecasting and insightful research-led modeling of historical data.
- Secured company milestones by orchestrating data analysis and crafting key models for strategic decision-making.

## PROJECTS

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### Stock Ticker Sentiment Analysis | *Python, OpenAI API, Reddit API, HTML/CSS, ReactJS, GitHub*

- Utilized OpenAI API, generative AI, and real-time Reddit data to detect and analyze public discourse on tradable assets, enhancing prediction accuracy of stock prices.
- Implemented sentiment analysis techniques by applying machine learning techniques (**NLTK, GPT-4**) to develop a front-end recommendation system, demonstrating proficiency in financial data analysis.

### LISP Interpreter | *Python*

- Developed a Python-based **LISP interpreter**, encapsulating 2,500 lines of code to support core functionalities like recursive evaluation and variable binding, facilitating execution of complex LISP scripts.

## SKILLS

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**Programming Languages:** Python, Java, JavaScript/TypeScript, C++, C, SQL, HTML, CSS,

**Frameworks and Tools:** React, NodeJS, Django, Git, Docker, MongoDB, Linux, PyTorch, Tensorflow, Nvidia Isaac Gym

**Additional Skills:** Statistical Modeling, Machine Learning, Data Analysis, NLP, Financial Data Analysis

**Languages:** Nepali, English, Hindi, Spanish