Rohan Shukla

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Education

Carnegie Mellon University May 2026   **Pittsburgh, PA**

B.S. Computational Finance; Minor: Machine Learning

Relevant Coursework: Introduction to Machine Learning(A), Principles of Imperative Computation(A), Introduction to Mathematical Finance(A), Concepts of Mathematics(A), Calculus in Three Dimensions(A), Matrices and Linear Transformations(A), Introduction to Functional Programming(A)

Relevant Clubs: CMU Quant Club, STA(Sales and Trading Academy), CMU Poker Club

Technical Skills

Languages: Java, Python, C, C++, HTML, CSS, JavaScript, React

LLM's: LSTM, Mamba

Tools/Platforms: Git/GitHub, VS Code, Eclipse, MongoDB, Node.js, Anaconda, Bash, TensorFlow, Google Colab

Experience

SproutsAI   San Jose, CA

Data Science and Machine Learning Intern   May 2024 - September 2024

- Created an AI agent based on an LLM model that used information from parsed pitch decks, web browsing, and LinkedIn profiles that filtered through thousands of companies for venture capital firms
- Utilized prompt engineering techniques, including few-shot and chain-of-thought methods, to optimize OpenAI API performances, comparing outputs to ground truth data and restructuring prompts for accuracy and cost-efficiency
- Work will be integrated into a generative AI stack for client companies, enabling them to ask questions and receive personalized responses through a chatbot
- 40 hours per week for 18 weeks

Stanford School of Engineering   Palo Alto, CA

Machine Learning Research Intern   May 2023 - September 2023

- Developed a machine learning algorithm using Python (TensorFlow, sci-kit-learn) and Java (Weka, DL4J) to analyze and organize patient data, aiding in the identification of treatment methods.
- Utilized data manipulation and visualization tools (Pandas, NumPy, Matplotlib) to preprocess data and present insights, ensuring accurate and efficient analysis of patient histories and medical records.
- Enabled professors to leverage the technology to predict treatment outcomes and securely handle classified data, improving their research capabilities and decision-making processes.
- 40 hours per week for 12 weeks

OME Kitchen   Remote, CA

Cloud Developer Intern   March 2023 - May 2023

- Managed and configured AWS cloud environments to support a state-based kitchen knob simulation, demonstrating proficiency in scalable cloud solutions.
- Utilized Source Control Management and conducted regression testing to ensure code reliability and document changes effectively.
- Developed algorithms for a state-based simulation, integrating database management to accurately represent kitchen knob behaviors.
- 10 hours per week for 12 weeks

Projects

Elevator Simulation | Java, Git

- Created an event-driven simulation to run different elevator configurations to make a recommendation based on passenger wait time
- Leveraged queues, FSM, and a GUI to display real-time attempts

Inspirit AI | Python, Git, Google Colab

- Created a facial recognition algorithm that takes 48 facial mapping points on a student's face to identify their moods and facial expressions.
- Learned how to implement convolutional neural networks using Python libraries such as TensorFlow, Pandas, and NumPy to use machine learning in Python.
- 12 hours per week for 5 weeks