Rishik Janaswamy

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Education

University of Massachusetts Amherst, Amherst, MA   May 2025
Bachelor of Science in Computer Science, Statistics & Data Science
- Awarded **Chancellors Award Scholarship** for **academic and extracurricular achievements**
- **Relevant Coursework**: Alternative Investments (fall 2022), Mathematics of Finance (fall 2022), Programming methodologies (fall 2022) Reasoning under uncertainty (fall 2022), Programming with Data Structures, Statistics, Multivariable Calculus, Linear Algebra
- **Activities:** Isenberg Undergraduate **Consulting competition finalist**, Entrepreneurship Club, Machine Learning club, Finance Society

Work Experience

Putnam Investments, Software Engineering Intern, Boston, MA   June 2022 – Present
- Collaborating in an agile development manner with weekly sprints alongside the Equity and Digital Technology teams to deliver investment research features into production
- Communicate, coordinate, and execute on deliverables, feature requirements, and roadmaps for new equity research investment tools
- Assisting in AWS migration while simultaneously preparing for AWS Cloud Practitioner exam
- Developing an ESG capture tool leveraging Java, SQL, groovy

Collegiate Summer Venture Program, Start-up Accelerator, Remote   May 2022 – Present
- Selected for a Web3 based fashion start-up providing a more engaging and immersive fashion experience
- Awarded as the top venture and won $1400 in equity free funding along with various start-up pitch completions
- Conducted 75+ customer discovery interviews and in the process of creating an MVP using JavaScript and Solidity

Minutemen Equity Fund, Development Program, Amherst, MA   Sept – Dec 2021
- Applied quantitative equity valuation techniques with a top-down fundamental investment strategy to pitch mid-cap undervalued equities
- Demonstrated knowledge about operating buy-side financial institutions with a portfolio of $400,000 under management
- Bloomberg Market Concepts Certified: Applied knowledge of economics, valuation methods, and the Bloomberg Terminal

Petrofac, Data Science Intern, Dubai, UAE   Jun – Aug 2020
- Applied Data Science concepts to minimize downtime of production equipment by 15%
- Monitored and visualized critical processes using advanced analytics
- Merged the process of data collection, transformation, application of ML models in python to derive predictable outcomes

Early Research Scholars Program, incoming research apprentice, Amherst, MA   Sept 2022– June 2023
- Selected to participate in academic research with a research advisor while earning course credits per semester
- Intent on working in the Information Fusion Lab to research techniques combining time series and structured data to introduce domain-specific saliency into machine learning models

Projects & Certificates

Investment management with python and machine learning, Specialization, EDHEC business school   July 2022- Present
- Using data science and machine learning to optimize investment decisions with an emphasis on alternative datasets to avoid portfolio crowding
- Using python to construct strong profitable portfolio analysis using estimation and risk and return parameters
- Using Machine learning to create factor models and regime switching models for asset management

Machine Learning and Reinforcement Learning in Finance, Specialization, New York University.   July 2022-Preseant
- Use reinforcement learning to solve classical problems of Finance such as portfolio optimization, optimal trading, and option pricing and risk management

Natural Language Processing for Stocks News Analysis, Project   Feb 2022
- Created a Long Short Term Memory deep learning model to perform stocks sentiment analysis with 80% accuracy
- Analyzed thousands of Twitter tweets to predict people's sentiment towards a particular company or stock

Machine Learning for Trading Specialization, New York Institute of Finance & Google Cloud   Jan 2022
- Deployed serverless, scalable, deep learning, and reinforcement learning models to create arbitrage opportunities using Google Cloud
- Designed a pair trading strategy prediction model and a momentum-based trading model Using Keras and TensorFlow
- Integrated reinforcement learning with neural networks and applied them to time series data

Skills: Python, Java, AWS, Data Structures, Object Oriented Programing, Machine Learning, TensorFlow