SHARVIL OZA

Student

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Ahmedabad (India)

SUMMARY

Driven and analytical aspiring Quant with a strong foundation in mathematics and finance. Eager to leverage quantitative skills to analyze data, develop models, and drive informed investment strategies. Seeking to contribute expertise in quantitative analysis to excel in the dynamic world of finance..

EDUCATION

Dhirubhai Ambani Institute of Information and Communication Technology (Gandhinagar)

Bachelor of Technology - B.Tech. in Electronics and Computer Science   October 2022 - Present

Udgam School For Children (Ahmedabad)

HSC/SSC April 2007-March 2021

SKILLS

- Python
- Computer Vision
- Financial Modeling
- Corporate Strategy
- SQL Database
- Machine Learning
- Mathematical Finance
- Data Structures and Algorithms
- Deep Learning
- C++
- Portfolio Management
- Computer System Programming
- Financial Markets
- Quantitative Trading Strategies

CERTIFICATIONS

- **Strategy Consulting Job Simulation(BCG)**

Completed a job simulation where I advised a hypothetical local telco company, Company X, facing a decline in profits.Conducted market research to determine the feasibility of the proposed solution.Used excel to build a model to predict the potential profitability of the proposed solution.Communicated a summary of key findings in a clear presentation to stakeholders

- **Supervised Machine Learning(Stanford)**

- **Financial Markets(Yale University)**

- **Fundamental of Quantitative Modeling(University of Pennsylvania)**

- **Meeting Investors Goal(University of Geneva)**

- **Advanced Learning Algorithms(Stanford)**

- **Corporate Strategy(University of London)**

- **Mathematical Finance(IIT Guwahati)**

Pursued Mathematical Finance at IIT Guwahati, mastering quantitative techniques, risk analysis, and financial modeling. Gained expertise in applying mathematical methodologies to real-world financial scenarios. Acquired a strong foundation in finance, statistics, and computational techniques, ready to excel in financial analysis and quantitative roles.

- **Portfolio and Risk Management(University of Geneva)**

- **Deep Learning and Neural Networks(DeepLearning.AI)**

- **Improving Deep Neural Networks**

- **Investment Banking Simulation with J.P Morgan**

- **Private Equity and Venture Capital with University of Bocconi**

- **Convolution Neural Networks and Sequence Models(Stanford)**

- **Advanced Valuation and Strategy with Erasmus University**

- **Business and Financial Modeling with Wharton Business School**

PROJECTS

- **Developed banking service management software using Python and MySQL**

Developed Python-based banking service management software, leveraging MySQL for robust data handling. Engineered core functionalities for seamless user experience, encompassing secure authentication and transaction tracking. Proficiently designed and implemented backend solutions, ensuring efficient banking operations and data management.

- **LDPC Codes Decoding and Encoding in Digital Communication System**

We developed a system to decode LDPC codes in MATLAB which are helpful in Digital Communication while keeping the bit error rate as low as possible along with maximum utilization of Bandwith with the help of Tanner Graph.

- **The Future Banks**

Researched "The Future of Banks" focusing on Decentralized Finance's pivotal role. Introduced a novel algorithm merging graph theory and probability, enhancing financial analysis in dynamic markets.Explored how DeFi revolutionizes banking, demonstrating innovation in algorithmic approaches for future financial systems.

- **Portfolio Website**

Built my Portfolio website using Streamlit library in Python and deployed it on Streamlit open-source cloud platform.

WORK EXPERIENCE

Research Intern,
Georgia Tech Financial Services Innovation Lab(FSIL)   **May 2024 - July 2024**
- Implemented and Backtested Trading Algorithms related to price based algorithm, made the algorithm more robust by implementing a Financial risk metrics class made of over 25 Risk Metrics.
- Used OHLCV data for data in the model and BackTrader for backtesting the model.
- Used API's for collecting Option and Equities data.

Intern, Maitri Manthan Sansthan   **Dec 2023 - Jan 2024**
- Prepared a Pitch Deck for Sustainability of NGO in the long term by doing a SWOT analysis and helping the NGO getting it's financial condition in order.
- Made a website with my team for a new internship portal for the NGO
- Recommended for opening up online internship at NGO to boost the NGO's programs nationwide and creating an online portal.

POSITION OF RESPONSIBILITY

Core Member-AI Club(Sep2023-Present)
- Led the AI Club by organizing various hackathons and talks along with insightful seminars and looked at the club's management and finances and also participated in a number of hackathons organized by Kaggle and other platforms.
- Organized and taught Deep Learning and Computer Vision Summer School

Core Member-Research Club(Aug2023-Present)
- Led the Research club in successfully conducting various talks and poster presentation competition and held many research related discussions with fellow PhD Scholars of various colleges. Held great events like Integration bee and Poster presentation events alongside managing the social handles of the club.

INTERESTS

Passionate about football, I embrace its team dynamics and leadership lessons. My enthusiasm for astrophysics and quantum mechanics fuels a curiosity for the universe's mysteries. Engaging with finance and geopolitics literature sharpens my understanding of global economic landscapes, nurturing a holistic perspective essential for problem-solving and strategic thinking.