JAISAL SINGH

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SUMMARY

Recent graduate with excellent research, technical and problem-solving skills with a strong grasp in the field of Data Science and Financial Markets. Detail-oriented and able to learn new concepts quickly. SEBI Certified Research Analyst

EXPERIENCE

Freelance Quantitative Trading

Self Employed | Nov 2023-Current

- Engineered and implemented over 10 Python scripts, achieving a 95% reduction in manual intervention for fetching live market data and executing trading orders.
- Partnered with various clients to comprehend and execute their preferred trading strategies, including simple EMA crossovers and delta-neutral strategies.
- Leveraged extensive knowledge in quantitative analysis to optimize trading strategies and enhance performance.
- Orchestrated seamless integration of trading algorithms with live market data feeds and trading platforms.
- Conducted rigorous backtesting on over 20 trading strategies, resulting in a 40% increase in predictive accuracy and strategy robustness before live deployment.
- Upheld high standards of code quality, ensuring robustness and reliability in live trading environments.

Data Analyst Intern

SigmaQuant | Bangalore | Jun 2022-Jul 2022

- Crafted dynamic data visualizations and interactive dashboards to meticulously track and analyze business metrics using Tableau.
- Conducted comprehensive exploratory data analysis on extensive datasets to uncover trends and outliers, driving actionable insights.
- Immersed in and assimilated the intricacies of day-to-day office operations, enhancing operational efficiency.

EDUCATION AND CERTIFICATIONS

Bachelor of Science: Data Science

Narsee Monjee Institute of Management Studies | Mumbai | May 2024

- CGPA: 3.36(4)

Research Analyst Certification

National Institute of Securities Market | May 2024
Research Analyst certifcate issued by SEBI

Class 12th

Study Hall School | Lucknow | Jan 2021
- Percentage: 83.4%
- Board: CBSE

Class 10th

Study Hall School | Lucknow | Jun 2019
- Percentage: 87%
- Board: CBSE

PROJECTS

Mental Health Virtual Assistant,
- Developed a Virtual Assistant designed to provide supportive responses for coping with mental health issues.
- Built and evaluated two models, CNN and CRNN, to determine the most accurate for implementation.
- Utilized the model with the highest accuracy to power the Virtual Assistant.
- Implemented personalized responses based on user's age, gender, and detected emotions.
- Integrated webcam functionality to capture and analyze user emotions through facial recognition.
- Added a speech-to-text feature to enable verbal interactions with the assistant.
- Enabled the assistant to retrieve and deliver the most relevant responses based on user input and emotional state.

Sentiment Analysis of IMdb Movie Reviews,
- Evaluated the performance of three different machine learning models on the IMDB dataset for sentiment analysis.
- Compared the effectiveness of the models using various evaluation metrics.
- Developed a user-friendly GUI to enhance accessibility and user experience.

Regression Analysis on Vehicle Dataset,
- Obtained data regarding Car prices and its specifications from Car Dekho.
- Performed Exploratory Data Analysis along with Visualisation
- Fitted a Linear model into the data with 'Price' being a dependent variable

Stock Market Prediction using Time Series Analysis,
- Fetched real time data from python library called yfinance.
- Performed EDA on the data which included, checking for outliers, and stationarity
- Applied two ARIMA models on the data in order to predict stock prices
- Used RMSE as a metric to determine the accuracy of both the models.

SKILLS

- Derivatives Trading
- Python Programming
- Research
- R Programming
- Data Visualisation
- Excel
- Technical Analysis
- Data Validation
- Model Building

POSITIONS OF RESPONSIBILITY

- **Captain of NSOMASA Football Team, 2022-2024**

Represented the college in various football tournaments across Mumbai as Captain.
Managed the squad of 16 players, including preparing team drills and tactics.

- **Sub-Head of Sports Committee, 2023-2024,**

Part of the Core Committee of the NSOMASA Student Council.
Overlooked organising events including budget allocation and coordinating with venues and sponsors.

- **Member of Sports Committee, 2022-2023,**

Took part in organising various sporting events in the college.
Responsible for overlooking and ensuring everything runs smoothly on the day of the event.

ACCOMPLISHMENTS

- Runners-Up in NMIMS inter-college Football Tournament during the sports fest called Samarthya '23 in which 64 colleges took part from all over Mumbai.