

JOSHUA D. GOLAFSHAN

[Linkedin](#) | [Github](#) | [Website](#)

NSW, Sydney, Australia | 0481 947 313 | JGolafshan@outlook.com

EDUCATION

Macquarie University

Mar 2021 - Present

- Bachelor of Science in Mathematics

QuantInsti

Aug 2019 - Mar 2020

- Executive Programme in Algorithmic Trading (EPAT)

TAFE NSW

Mar 2017 - Dec 2017

- Certificate III in Engineering - Technical

EXPERIENCE

Women's Community Shelters

September 2024 - Present

Data Scientist

- Developed a predictive algorithm to analyze the impact of shelters on reducing domestic violence and related fatalities, utilizing advanced statistical methods.
- Designed and implemented data pipelines to support data mining, analytics, and modeling processes for more accurate reporting.
- Communicated findings and insights effectively to stakeholders through detailed statistical analysis and data-driven recommendations.

PROJECTS

Arbitrage Betting Software

Python

Scans Australian Bookmakers for Differing Odds

- Developed a low-latency arbitrage algorithm with a 14-millisecond response time, optimizing betting strategies across 10 Australian bookmakers through real-time data mining.
- Designed and implemented a web interface to display real-time arbitrage opportunities, enhancing user decision-making through advanced analytics.

Wall Street Social

Python

AI-Driven Social Media Analysis for Stock Market Insights

- Implemented a Named Entity Recognition (NER) algorithm to accurately extract stock symbols and option contracts from social media content, leveraging data mining techniques.
- Utilized SQLite for efficient storage and retrieval of comments, enabling comprehensive analytics and in-depth statistical analysis.
- Conducted comprehensive mention analysis using Pandas, uncovering trends and insights related to stock market movements through data mining and statistical analysis.

TECHNICAL SKILLS

Languages

Python, Java, MATLAB, R

Databases

SQL (PostgreSQL, MySQL, SQLite3)

Tools

GitHub, Microsoft Suite, PowerBI, Looker, Tableau

Frameworks

Flask, Pandas, DBT