Liu Jason Tan

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Experience

Morgan StanleyNew York, NYAnalyst, Operational Risk Analytics2022 - Present

- **Collaborated** with global cross-functional risk management teams to facilitate **decision-making**, **mitigate risk** exposure, and **prevent fraud**, potentially **safeguarding billions of dollars**
- Developed **end-to-end models**, spanning from conceptualization to production employing **R** and **Python** to **automate** manual processes, resulting in over 50% reduction in manual workload
- Applied **statistical techniques** (**regression** and **simulations**) to pass regulatory examinations, determining optimal thresholds, creating projections, and evaluating potential losses
- **Analyzed a substantial volume of data** to identify inconsistencies in risk incident tagging, enhancing quality assurance, and fortifying the framework for risk identification and recording

Education

Master of Applied Data Science	GPA: 4.00 /4.00
University of Michigan – Ann Arbor	Ann Arbor, Michigan
Bachelor of Science in Information Systems	GPA: 3.64 /4.00
Stony Brook University	Stony Brook, New York

Skills

- Experienced in **R**, **SQL**, and **Python** (**Numpy**, **Pandas**, Keras, TensorFlow, SciKit Learn, and **NLTK**)
- Proficient in supervised and unsupervised machine learning algorithms such as deep neural networks, classification, clustering, dimensionality reduction, and regression
- Extensive experience running millions of **Monte Carlo simulations** and thousands of **regressions** for in-depth analysis, anomaly detection, **predictive modeling**, forecasting, and allocation of capital
- Applied Natural Language Processing (NLP) methods such as Word2Vec, Part-Of-Speech Tagging, LSTM, and BERT for sentiment analysis
- Utilized both quantitative methods and business insights to generate results and improve risk management processes by translating business needs into analytical frameworks

Recent Project (More on my website)

Social Monitoring Dashboard

- Developed an **interactive dashboard** enabling users and companies to proactively monitor tweets for **reputation management** by leveraging the Twitter **API** to collect and analyze data
- Implemented a **sentiment analysis** module utilizing a pre-trained **BERT** to accurately determine tweet sentiments, contributing to more **informed decision-making**
- Employed **Non-Negative Matrix Factorization** to group tweets into distinct **clusters** based on topics to allow for efficient content organization and **trend and pattern analysis**