Liu Jason Tan

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Experience

Morgan Stanley New York, NY

Analyst, Operational Risk Analytics

August 2022 - Present

• Developed **end-to-end models** and pipelines, spanning from conceptualization to production utilizing **R**, **Python**, and **Git** to **automate** manual processes, streamline model testing, and documentation, resulting in a workload reduction exceeding 50%

- **Collaborated** with global teams to achieve common objectives and meet global regulatory requirements to pass 100% of regulatory and audit screenings, and **mitigate risk**
- Balanced multiple internal and regulatory projects, surpassing strict deadlines and innovating **unique solutions** to enhance team efficiency

Education

Master of Applied Data Science - August 2022	GPA: 4.00 /4.00
University of Michigan – Ann Arbor	Ann Arbor, Michigan
Bachelor of Science in Information Systems – May 2020	GPA: 3.64 /4.00
Stony Brook University	Stony Brook, New York

Skills

- Languages and Tools: **Python** (5+ years with libraries such as **Numpy**, **Pandas**, Keras, TensorFlow, **SciKit Learn**, Pyspark, **SciPy**, and NLTK), **R**, **SQL**, Git
- Constructed models with supervised and unsupervised machine learning algorithms such as **deep neural networks**, **classification**, **clustering**, **dimensionality reduction**, and **regression**
- 3+ years of experience in data **extraction** (SQL), data **manipulation** (Python), getting **insight** from data, data **visualization** (Python), and **presentation** to stakeholders
- Communicating complex technical concepts to stakeholders to make informed decisions, Problem-Solving with outside-the-box solutions, improving efficiency in the team, and uncovering insights

Recent Projects

- Text Classification (internal) Applied **Natural Language Processing** techniques on operational risk issue description to **transform** text data. Utilized **Advanced Machine Learning** to classify risk issues to correct risk type with over **90% accuracy**. Reduced manual labeling work by 90%.
- Advanced Measurement Approach (AMA) for Capital Reporting Ran 1 million Monte Carlo Simulations to determine operational value-at-risk (VaR) losses at 99.9 percentile, calibrated using historical losses. Passed 100% of regulatory requirements.
- Comprehensive Capital Analysis and Review (CCAR) and Quarterly Stress Test (QST) Applied
 advanced statistical regression modeling, incorporating macro-economic variables and historical
 risk loss data to forecast operational risk losses in the next 9 quarters. Passed 100% of regulatory
 requirements.
- Additional data science projects listed on my website