RAM RAVI

email: raviramgopal@gmail.com Mobile: (267) 968-4052

EDUCATION

Drexel University Philadelphia

Master of Science, Data Science (Sep 2023 - June 2025)

Current GPA: 4.0/4.0

Hong Kong University of Science and Technology (HKUST)

Bachelor of Engineering, Electrical and Electronic Engineering (2010-2014)

Dean's List (Spring 2013, 2014)

RELEVANT PROJECTS

- Bookshelf Scanner: Building a computer vision model to recognize book spines and recommend books based on Goodreads/Hardcover profiles
- **Heart Disease Prediction and Severity**: Trained and evaluated machine learning models (XGBoost, Decision Tree, SVC, Logistic Regression, Naive Bayes) to predict heart disease presence and severity
- AAPL Stock Price Prediction: Developed and fine-tuned an XGBoost model to predict AAPL stock prices
- Reddit Stock Mention Trend Analysis: Collected stock mentions from Reddit and integrated market data (daily close price, put-call ratio) to construct a dataset for trend analysis

WORK EXPERIENCE

Exelon (Baltimore Gas and Electric)

Baltimore (Remote)

Advanced Analysis and Modelling (co-op)

(July 2024 - Jan 2025)

- Performed data analysis for solar and battery storage projects, evaluating grid integration and performance metrics
- Designed and developed tools in python to optimize capacity planning, perform voltage analysis and enhance forecasting accuracy for Distributed Energy Resources (DER)

Athena Capital Research

Hong Kong

Hong Kong

Senior Trade-Operations Engineer

(Sep 2018 - Sep 2023)

- · Performed post-trade analysis using Python and statistical methods to identify trade inefficiencies
- Analysed market data to identify correlations in price returns across different futures exchanges
- Managed technology for trade-operations to support entire hedge fund's high-frequency trading strategies
- Developed and maintained real-time monitoring tools using Python to detect and flag trading-system errors

Morgan Stanley Hong Kong

Technology Associate, Production Management

(Dec 2014 - Apr 2018)

- Developed scripts for process monitoring of specific "business as usual" support tasks using Unix, Python
- Led tech support for Institutional Equity Derivatives and Risk in Asia for Sales and Trading
- Collaborated with global IT to enhance market systems, including migrating Hong Kong's risk account database to Sybase ASE
 16.0 and conducting host migration for the risk account systems

Morgan Stanley New York

Technology Analyst Program (TAP)

(Aug 2014 - Dec 2014)

• Designed a framework for continuous system monitoring; presented findings to senior management

SKILLS AND PUBLICATIONS

Python (Scikit-Learn, NumPy, Pandas), SQL, Pyspark, Java, Unix, MATLAB, R, C#,C

2022 IEEE 9th International Conference on Data Science and Advanced Analytics (DSAA)

- Y. Zhao, **R. Ravi** et al, "PATE: Property, Amenities, Traffic and Emotions Coming Together for Real Estate Price Prediction" Real estate price prediction using XGBoost and Linear Regression methods
- Y. Zhao, S. Shi, **R. Ravi** et al, "H4M: Heterogeneous, Multi-source, Multi-modal, Multi-view and Multi-distributional Dataset for Socioeconomic Analytics in the Case of Beijing" Constructed a dataset containing real estate features

PERSONAL

CFA (Level 1), PADI Advanced Open Water Diver, Drexel Finance and Investment Group (DFIG), HKUST International Students Soccer Team (2010-2012), Drums, Cricket