Tighe H. Clough

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SKILLS

Programming
- Python (Pandas, NumPy, Matplotlib, Seaborn, Scikit-learn, Tensorflow)
- JavaScript/TypeScript (React (NextJS), NodeJS, Playwright, Redux)
- SQL, MQL (MongoDB), Cypher

Techniques
- Machine Learning: NLP, Regression, LangChain (Prompting, RAG, Agents), basic theory
- Database Design, DDL

Languages
- Conversational Mandarin (6500+ words)

PORTFOLIO & PROJECTS

Public Company Finder NLP
- Scraped and processed data from over 30,000 financial news articles using Selenium to determine where in text public companies were mentioned
- Created bidirectional LSTM in Tensorflow/Keras with custom data loading, custom embedding layer to train certain embeddings on the fly, and custom loss function
- Achieved F1 metric of .818 during evaluation despite imbalanced dataset (~3.15% of labels positive)

We Have ML at Home *(in progress)*
- Designing an ML framework from scratch, implementing techniques from popular ML papers as I read them

EDUCATION

Various Institutions   **REMOTE**
Continuing Education in Computer Science, Non-Degree   *Spring 2024 - Spring 2025*
University of Helsinki: Full Stack Open, full-stack development courses   8 ECTS - GPA: 5/5
Harvard Extension School: CSCI-20 Discrete Mathematics for Computer Science   4 Credits - Grade: A
Stanford University (self-studied): CS229 Machine Learning (see coursework [here](#))

NORTHEASTERN UNIVERSITY   **BOSTON, MA**
Bachelor of Science Degree in International Business   December 2023
Concentration: Finance *Minor:* Data Science   GPA: 3.96/4.00
Awards and Activities: Honors Program, Merit Scholarship, 2nd place DATA Club Project Competition
Relevant Coursework: Intermediate Programming with Data, Database Design, Linear Algebra, Statistics and Stochastic Processes, Applied Financial Econometrics and Data Modeling

NANYANG TECHNOLOGICAL UNIVERSITY   **SINGAPORE**
Study Abroad   August – December 2022
Coursework: Calculus III (Multivariable), Probability & Statistics, AI in Finance, The Chinese Economy

EXPERIENCE

CAPGEMINI INVENT DEUTSCHLAND   **COLOGNE, GERMANY**
Student Consultant   June - August 2023
- Developed the standard Dash application project structure for the data analytics unit of one of the top ten largest companies in Germany
- Created and deployed a test application to present to delivery architects covering topics including testing structure, project packaging, and security
- Leveraged OOP principles to create custom Dash components

CERTIFICATION

- Full Stack Open - University of Helsinki   2025
- Deep Learning Specialization - DeepLearning.AI   2024
- Data Scientist Professional Track – DataCamp   2023
- Stanford Online – ML Certificate   2022