

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 on test set

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

Continuing Education in Computer Science, Non-Degree

REMOTE
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