

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

Technologies

- Figma (Basic prototyping)
- Azure App Service (Basic deployment)

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

- Crawled financial news site and scraped over 30,000 financial news articles using Selenium
- Cleaned and labeled data using custom algorithm (to find where 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, error analysis on dev set previously indicated artificially low evaluation metric due to mislabeled data

We Have ML at Home (in progress)

- Designing an ML framework from scratch, implementing techniques from popular ML papers
- Created data loader classes, common neural net layers, common sequential models

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

Bachelor of Science Degree in International Business

Boston, MA

Concentration: Finance Minor: Data Science

December 2023

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

Study Abroad

Singapore

Fall 2022

Coursework: Calculus III (Multivariable), Probability & Statistics, AI in Finance, The Chinese Economy

Experience

Capgemini Invent Deutschland

Student Consultant

Cologne, Germany

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 Dash application to present to delivery architects covering topics including testing structure, project packaging, and security
- Leveraged OOP principles to create custom Dash components using Python

SharkNinja Operating LLC

FP&A Intern

Needham, MA

September 2021 - February 2022

- Tracked the financial impact of value engineering and EBITDA initiatives on a weekly basis
- Automated creation of sales review presentation using VBA, cut completion time from 2 hours to around 10 minutes
- Presented above mentioned sales presentation for final CY21 figures to North American sales leadership

The Blackstone Group, Life Sciences Division

Fund Accounting Intern

Cambridge, MA

January - June 2020, July - August 2021

- Prepared YE 2019, Q1 2020, and Q2 2021 financial reports and annual tax workpapers
- Automated and improved spreadsheets for carry, audit confirm, and AUM calculations

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