

# 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*

**University of Helsinki:** Full Stack Open, full-stack development courses

**Harvard Extension School:** CSCI-20 Discrete Mathematics for Computer Science

**Stanford University** (self-studied): CS229 Machine Learning (see coursework [here](#))

**Remote**  
Spring 2024 - Spring 2025

8 ECTS - GPA: 5/5

4 Credits - Grade: A

### Northeastern University

*Bachelor of Science Degree in International Business*

*Concentration: Finance Minor: Data Science*

**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

**Boston, MA**

December 2023

GPA: 3.96/4.00

### Nanyang Technological University

*Study Abroad*

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

**Singapore**

Fall 2022

## 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