

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 despite imbalanced dataset (~3.15% of labels positive), 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