

RAIN LEUNG

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github.com/pystander

Summary

Passionate and interest-driven student who focuses on AI/ML related fields, especially on Deep Learning (DL), Natural Language Processing (NLP), and Computer Vision (CV). Habitual contestant of competitive programming, with 6+ years of programming experience since high school.

Education

The University of Hong Kong

Sep 2021 – Jun 2024

Bachelor of Engineering in Computer Science

cGPA 3.34 / 4.3

PolyU Hong Kong Community College

Sep 2019 – Jun 2021

Associate in Engineering, *with Distinction*

cGPA 3.77 / 4.0

Relevant Coursework

- | | | |
|-------------------------------|--------------------------------|-------------------------|
| • Artificial Intelligence | • Computer Vision | • Algorithm Design |
| • Machine Learning | • Data Science and Engineering | • Software Engineering |
| • Natural Language Processing | • Data Structures | • Computer Architecture |

Work Experience

MTR Corporation Limited

Jun 2023 – Aug 2023

Summer Intern

- Created and maintained a new data pipeline in Python via APIs for room booking reports.
- Developed a web crawler for Glassdoor and conducted sentiment analysis on former employee reviews.
- Migrated and automated Octopus application process with SharePoint List and Power Automate.
- Assisted with UAT, ran test cases, and issued tickets using Redmine.
- Built Power BI dashboard for printer usage and ESG statistics.

Open-source Projects

Word-Sea | Python, PyQt5, BeautifulSoup

Dec 2023

- Developed a vocabulary look-up and jot-down application for English learning.
- Designed data structures and visualized with simple PyQt GUI.
- Created scripts to crawl, fetch, and parse data from Cambridge Dictionary.

Simple-ML | Python, ML, NumPy

May 2023

- Implemented Machine Learning algorithms in a simple and minimal way.
- Developed a few classic supervised and unsupervised learning models.

pystander.github.io | HTML, CSS, JavaScript, Jekyll, GitHub Actions

May 2023

- Developed my first personal website as a portfolio.
- Partially based on online boilerplate and hosted statically with Jekyll.

ML-Read-and-Code | Python, ML, PyTorch

May 2023

- Read research papers and implemented Machine Learning models for self-learning.
- Covered fields such as Computer Vision and Natural Language Processing.

Berkeley-AI-Pacman | Python, AI, ML

Dec 2022

- Completed a series of AI projects designed by UC Berkeley.
- Learnt search algorithms, probabilistic inference, and reinforcement learning.

Closed-source Projects

LLM-Evaluator Python, NLP, PyTorch, Hugging Face, Prompt Engineering	Mar 2024
<ul style="list-style-type: none">• Evaluated public LLMs (e.g., CodeLlama) on coding (HumanEval) and Math reasoning (GSM8K).• Tested with prompting techniques such as chain-of-thought (COT) and program-of-thought (POT).	
Transformer-Encoder-LM Python, NLP, PyTorch	Feb 2024
<ul style="list-style-type: none">• Built a transformer-encoder-only language model for generating word embeddings.• Trained on text8 (100MB of cleansed text from Wikipedia).	
NGram-Sentiment Python, NLP, Scikit-learn	Feb 2024
<ul style="list-style-type: none">• Developed a N-gram language model with add-k smoothing and linear interpolation.• Used N-gram features for training logistic regression model.• Trained with unigram and bigram on Rotten Tomatoes (movie review datasets).	
MNIST Clustering Python, ML, NumPy	Sep 2023
<ul style="list-style-type: none">• Implemented K-means and K-means++ to cluster hand-written digits from MNIST database.	

Technical Skills

Languages: Python, Java, C, C++, C#, Kotlin, HTML/CSS, JavaScript, SQL, R, Octave

Data Science & AI/ML: NumPy, Pandas, PyTorch, Scikit-learn, Keras, MLflow, BeautifulSoup, Selenium, Matplotlib, AWS, Azure, SQLite, MongoDB

Miscellaneous: Unity, Android Studio, Arduino, Jekyll, QT, Figma

Leadership / Extracurricular

“Meet and Chat” for Study Success	Jul 2022
Student Ambassador	HKU Academic Advising Office
<ul style="list-style-type: none">• Guided new admitted DAS students on academic planning and course selections.• Shared university life experience as a senior student.	

Awards / Achievements

Dean’s List	Aug 2021
PolyU Hong Kong Community College	
Director’s List	Oct 2020
PolyU Hong Kong Community College	
Outstanding Student Award	Oct 2020
PolyU Hong Kong Community College	