

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

Bachelor of Engineering in Computer Science

Sep 2021 – Jun 2024

cGPA 3.34 / 4.3

PolyU Hong Kong Community College

Associate in Engineering, *with Distinction*

Sep 2019 – Jun 2021

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

Summer Intern

Jun 2023 – Aug 2023

- 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.

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.

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.

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

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|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| 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">Developed a transformer language model for text generation, with encoder-only architecture.Trained on text8 (100MB of cleansed text from Wikipedia). | |
| 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

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| “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

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|-----------------------------------|-----------------|
| 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 | |