

# RAIN LEUNG

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github.com/pystander

## Summary

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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

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### 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

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

## Work Experience

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### 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

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### 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, Machine Learning, 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, Machine Learning, 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, Artificial Intelligence, Machine Learning

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, PyTorch, Hugging Face, Prompt Engineering **Mar 2024**
- Evaluate 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, PyTorch **Feb 2023**
- Developed a transformer language model for text generation, with encoder-only architecture.
  - Trained on text8 (100MB of cleansed text from Wikipedia).
- MNIST K-Means Clustering** | Python, Machine Learning, NumPy **Sep 2023**
- Implemented K-means and K-means++ algorithms to cluster hand-written digits from MNIST dataset.

## Technical Skills

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**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
- 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