

RAIN LEUNG

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github.com/pystander

Summary

Passionate and interest-driven person who focuses on AI/ML related fields, especially on Deep Learning (DL), Natural Language Processing (NLP), and Computer Vision (CV). Self-taught generalist across several fields. 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
- Machine Learning
- Natural Language Processing
- Computer Vision
- Data Science and Engineering
- Data Structures
- Algorithm Design
- Software Engineering
- 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.

Technical Skills

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

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

Miscellaneous Git, Unity, Android Studio, Arduino, Jekyll, PyQt, Figma, Verilog, AutoCAD, SolidWorks

Open-source Projects

Start Date

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.

Berkeley-AI-Pacman | Python, AI, ML, RL

Dec 2022

- Completed a series of AI/ML projects designed from UC Berkeley CS188.
- Covered topics such as searching, reinforcement learning, probabilistic inference, and ML classification.

Closed-source Projects	Start Date
LLM Evaluator Python, NLP, PyTorch, Hugging Face, Prompt Engineering <ul style="list-style-type: none"> Evaluated public LLMs (e.g., <u>CodeLlama-7b-hf</u>) on coding (<u>HumanEval</u>) and Math reasoning (<u>GSM8K</u>). Tested with prompting techniques such as chain-of-thought (COT) and program-of-thought (POT). 	Mar 2024
The Road to Castle 3D Unity, C#, Game Development <ul style="list-style-type: none"> Developed a 3D fantasy action RPG in a 2-man team with 0 budget. Implemented maintainable frameworks for gameplay systems (e.g., combat, inventory, quest, shop). 	Sep 2023
Dining@HKU Java, Mobile App Development, Android Studio, Google Maps <ul style="list-style-type: none"> Collaborated on a restaurant guide app for HKU campus in a group of 5. Built with Google Maps SDKs and APIs for locations and routes. 	Sep 2023
MNIST Clustering Python, ML, NumPy, PyTorch, TorchVision, Matplotlib <ul style="list-style-type: none"> Implemented K-means++ algorithm to cluster <u>MNIST</u> dataset (hand-written digits). Evaluated results with purity and distortion. 	Jan 2023
Leadership / Extracurricular	
“Meet and Chat” for Study Success Student Ambassador <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. 	Jul 2022 HKU Academic Advising Office
Awards / Achievements	
Dean’s List PolyU Hong Kong Community College	Aug 2021
Director’s List PolyU Hong Kong Community College	Oct 2020
Outstanding Student Award PolyU Hong Kong Community College	Oct 2020