Rain Leung

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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   **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
- Machine Learning
- Natural Language Processing
- Computer Vision
- Data Science and Engineering
- Data Structures
- Algorithm Design
- Software Engineering
- 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.

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   **Mar 2024**
- Evaluated public LLMs (e.g., CodeLlama-7b-hf) on coding (HumanEval) and Math reasoning (GSM8K).
- Tested with prompting techniques such as chain-of-thought (COT) and program-of-thought (POT).

NLP-Sentiment-Analysis | Python, NLP, Keras, Scikit-learn   **Feb 2024**
- Developed statistical LMs with N-gram, TF-IDF, and GloVe for sentiment classification.
- Trained on Rotten Tomatoes (movie reviews), with 80% accuracy and F1-score in test set.

Dining@HKU | Java, Mobile App Development, Android Studio, Google Maps   **Nov 2023**
- 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.

The-Road-to-Castle-3D | Unity, C#, Game Development   **Sep 2023**
- Developed a 3D fantasy action RPG in a 2-man team.
- Implemented maintainable frameworks for gameplay systems (e.g., combat, inventory, quest, shop).

MNIST-Clustering | Python, ML, NumPy, PyTorch, TorchVision, Matplotlib   **Apr 2023**
- Implemented K-means++ to cluster MNIST dataset (hand-written digits), with >60% purity.

Leadership / Extracurricular

"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

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