Zoe Lam

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Skills

- **Programming Languages/ Format:**

  Python, LaTeX (Experienced); C++ , MATLAB (Beginner)

- **Programming Frameworks:**

  PyTorch, Tensorflow, Matplotlib

- **Languages:**

  Cantonese (Native), English (Highly Proficient; IELTS overall: 7.5, with 8.5 in reading and listening), Mandarin (Proficient), German (A2)

Education

- **The University of Hong Kong**
  Bachelor of Science (BSc), Majors: Physics, Computer Science *Sept. 2023 – Aug. 2027*
  - Relevant Courses: COMP1117-Computer Programming, COMP2121-Discrete Mathematics, MATH1013-University Mathematics II, MATH2121-Multivariable Calculus

Experience

- **Alpha Business Compliance Limited** Hong Kong
  AI Development Intern *Jun - Aug 2024*
  - **Description**: As an AI Development Intern at Alpha Business Compliance Limited, I developed and implemented AI solutions, focusing on the agricultural sector. I collaborated with a multidisciplinary team to build an AI farming agent using Langfow (LLM) for communication and a deep learning model (1D CNN, LSTM) to analyze time-dependent data, correlating harvest dates with environmental factors.
- **Generative Artificial Intelligence Hackathon for Sustainable Development Goals** Hong Kong
  Organisers: HKU, HKUST, HKBU, CityUHK *Oct 2024*
  - **Description**: In this competition, our team developed a comprehensive one-stop AI agent capable of predictive analysis, IoT automation, and customer communication. My specific responsibility in this project is to train a deep learning model to predict the time required for harvesting Butter Lettuce.

Projects

- **Harvest Date Prediction**: A prediction model on the time needed for lettuce harvest.

  The model I developed for the hackathon is designed to predict the optimal harvest date for lettuce based on three key factors: air temperature, humidity, and luminosity. By analyzing how these elements influence growth rates, we can estimate the time required for butter lettuce to reach maturity, ultimately reducing food waste associated with the disposal of non-fresh produce.

  GitHub Link
  Blog on Medium for the project

- **Handwritten Digit Recognition**: Handwritten Digit Recognition using basic neural networks with Python.

  In this project, I have constructed a feed-foward model by just using Python with NumPy and Pandas (Future projects: repeating this project by using PyTorch and Tensorflow). This project has given me a deeper understanding of how neural networks work behind the codes in a more "mathematical approach".

  GitHub Link