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Pun King Fung
Computer Science Student

SUMMARY

Motivated computer science student with a strong foundation in programming languages such as Java, Python, and C++. Proficient in statistical modeling, data manipulation, data visualization, and machine learning techniques. Demonstrated expertise through projects including a foreign currency exchange rate calculator, a stock price prediction model using linear regression, and machine learning classification tasks. Quick learner with excellent problem-solving skills and a passion for collaboration. Seeking opportunities to contribute to real-world projects in software development.

EDUCATION

Bachelor of Engineering (Computer Science)   Sep 2021 - Jun 2025

The University of Hong Kong   Cumulative GPA: 3.51

PROJECTS

Foreign Currency Exchange Rate Calculator

- Developed a program to calculate foreign currency exchange rates using data from The Bank of East Asia Limited (BEA) foreign currency T/T exchange rates webpage.
- Used the BeautifulSoup and re libraries in Python to extract the relevant data from the webpage and parse the user inputs.

Stock Price Prediction using Linear Regression

- Developed a linear regression model to predict the average opening price of the next five trading days based on the opening price of today using Python libraries such as pandas_datareader, numpy, and scikit-learn.
- Proficient in statistical modeling, data manipulation, and data visualization in Python.

Naive Bayes Classifier for Toy Dataset Classification

- Built a probabilistic model that estimates the probability of each class given the input features.
- Evaluated the performance of the NBC using accuracy, precision, recall, and F1 score on the test dataset.
- Analyzed the decision boundary of the NBC and determined that it is quadratic, a characteristic of the Gaussian distribution.

Clustering MNIST handwritten digits with K-means

- Implemented a K-means clustering model using PyTorch and gradient descent to cluster the MNIST handwritten digit images.
- Used the first 10,000 samples of MNIST images in the train set and solved an optimization problem to partition the data points into clusters.

WORK EXPERIENCE

The University of Hong Kong   Sep 2022 - Nov 2022

Student Teaching Assistant

- Taught Year 1 Python course to a group of 20 students, facilitating interactive discussions and teaching them how to solve programming problems.
- Maintained regular communication with students through online forums, providing updates, answering questions, and addressing concerns.

The University of Hong Kong   Oct 2022 - Oct 2022

Robot Operating System (ROS) workshop helper

- Assisted students in navigating challenges related to the Robot Operating System.
- Encouraged student engagement through interactive activities, showcasing leadership and facilitation abilities in a collaborative learning environment.

PROGRAMMING SKILLS

C/C++   C#   Python   Java   Linux

WEB DEVELOPMENT SKILLS

HTML/HTML5   CSS   JavaScript   PHP   Node.js   MySQL   MongoDB

INTERESTS

ChatBot   Data Science   Web Development