Owen Junjie Wang

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Education

University College London (UCL) Sept 2024 – Present

BSc - Major: Computer Science | Minor: Intelligent Systems Grade: 79.7% (First Class Honours)

Experience

Neuphonic AI Hackathon, Participant 6 Dec 2024

- Built a web application that conducts interactive interviews based on uploaded documents, integrating **text-to-speech** and **speech-to-text**, with a UI developed using **React.js**.

Susquehanna, Virtual Discovery Day Participant 17 Apr 2025

- Gained insight into research roles and operational processes while engaging in interactive information sessions.

Projects

Stock Recommender: Automated web application that suggests equities using technical indicators daily.

- Built using **Django**, with login system and **email authentication** functionality using **allauth**.
- Engineered **SQLite** tables to efficiently handle financial and user records, using **ORM** to store/retrieve data.
- Included features such as responsive candlestick charts using **Apache ECharts** and a follower system allowing users to monitor others' trading activity.
- Used **Coverage** to ensure reliable creation and functionality of models through **unit testing**.

Premier League Match Predictor: Predicts the outcome of past games using match statistics.

- Designed **machine learning** algorithms, leveraging preprocessing techniques such as **one-hot encoding** and **PCA**.
- Used **Pandas** and **Matplotlib** for dataset exploration and **feature engineering**, creating visualisations including **correlation matrices**.
- Experimented with various models including **Logistic Regression**, **Random Forest**, and **SVMs**, comparing their performance using **cross-validation** and optimising results through **hyperparameter tuning**.

Style Transfer Algorithm: CLI Application that converts an input image into the artistic style of another.

- Implemented a **neural style transfer** model using **PyTorch** following inspiration from the paper: *A Neural Algorithm of Artistic Style* by Gatys et al.
- Leveraged pretrained **Convolutional Neural Networks (CNNs)** to extract and integrate content and style features for image generation.
- Added **TensorBoard** logging to visualise **training losses** (content, style, and total variation) and track generated images across optimisation steps.

Java Notes/Flashcard Web Application: Coursework project for managing notes and flashcards.

- Developed using **Java Servlets** with features such as tags, folders, and filtering.
- Applied **Factory Method** for card creation and incorporated **SOLID principles** to ensure extensible and maintainable design.

Technical Skills

Python, Java, C, C++, Haskell, JavaScript, HTML, CSS, SQL

Git, PyTorch, Scikit-learn, React.js