JingHong Huang

Boston, MA

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EDUCATION

Boston University, Boston MA — Sept 2020 — Present
College of Arts and Sciences
Candidate for Bachelor of Arts and Science, Computer Science — Graduation: May. 2024
Honors: GPA: 3.48 | Dean's List | Thomas M. Menino Merit Scholar |Thomas Phillips Merit Scholar
Relevant Courses: Software Engineering | Distributed Systems (Go) | Principles of Algorithm | NLP

TECHNICAL SKILLS

Programming: Java | Python | C | JS | CSS | HTML| Go | MATLAB | Node.js | Vue.js | Tailwind
Operation Systems: macOS | Linux | Windows
Applications: Github | Gitlab | Figma | Salesforce| Microsoft | VS Code | Anaconda | Spyder

PROJECTS

Not Latte: Created with: Python | JS| CSS | HTML | React.js | Node.js
- Developed a web application using React.js, Flask, Node.js, and MongoDB that searches for the nearest, highest-rating coffee houses near the user's current location.
- Integrated MongoDB database for constructing a flexible data model, improving scalability and performance.
- Improved and optimized user experiences by using simple React components and efficient RESTful API protocol.

Julius Caesar NLP Sentimental Analysis: Created with: Python | Matplotlib | LeXmo | NLTK
- Implemented a novel approach for analyzing the sentiments of characters in the literature using NLP techniques.
- Created an in-depth character and contextual analysis modification on the language model LeXmo.
- Trained the dataset in semi-supervised learning where the context of the play has been identified manually through learning from labeled data and leveraging inferences from unlabeled data.
- Achieved over 70% accuracy in identifying contextual sentiment in other Shakespearean texts.

Taylor Swift Music Variation AutoEncoder Created with: Python | Matplotlib | PyTorch | Tensorflow
- Using Music VAE autogenerated compact latent space (128 dimensions) for meaningful music representation.
- Encoder mapped 1000-step musical sequences to 128-dimensional latent vectors; decoder reconstructed sequences.
- Minimize data reconstruction loss (binary cross-entropy, average loss: 0.023) and KL Divergence Loss (mean KL: 0.015) in order to optimize the training output.
- Processed 200 WAV files, and trained model over 20 epochs, facilitating efficient, new music composition.

PREVIOUS WORK EXPERIENCES

Inner City Capital Connections, *Front-end Web Dev. Intern* — June 2019 — Aug. 2019
- Employed UI/UX design concepts into the codebase using HTML, CSS, and JSX.
- Facilitated reusable front-end components and functionality, resulting in a 20% reduction in development time.
- Established optimal user experience across various devices by implementing Figma templates, leading to a 15% increase in user engagement.
- Collaborated with UI/UX designers, patrons, and back-end developers to integrate components seamlessly.
- Conducted testing and debugging to identify and resolve issues or bugs on the main company site.

HeadQuarter Optimizer (HqO), *Web Design and Dev. Intern* — June 2020 — Aug. 2020
- Designed and developed cutting-edge front-end components, features, and functionalities for web-based software services, resulting in a 25% improvement in user satisfaction.
- Ensured seamless integration of front-end components with back-end systems, APIs, and databases to deliver robust and performant software solutions.

INTEREST AND LANGUAGE

Interests: Guitar | Graphic Design | Badminton | Video Games | Software Design | Artificial Intelligence
Languages: Mandarin | English | Cantonese | Latin (literal)