Jingyu Huang

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PERSONAL STATEMENT

Graduate with a Master's degree in Computer Science from the University of Copenhagen and a Bachelor's degree in Software Engineering from Jilin University. Proficient in multiple programming languages, including **C, C++, Python, JavaScript, HTML, CSS and SQL**. Experienced in implementing and evaluating **advanced algorithms, machine learning models, web scraping and website development** through various academic projects. I am a passionate, **fast learner** who excels as a **team player**, and thrives in roles requiring independence and strong self-management. With **valid work authorization**, I am **ready to start full-time employment as soon as possible**, offering a strong foundation in both theoretical and practical aspects of computer science, as well as a keen interest in continuous learning and innovation.

EDUCATION

University of Copenhagen, Denmark 09/2021 – 06/2023
Master of Science in Computer Science *GPA: 7/12*

- Main Courses: Advanced Algorithms and Data Structures, Machine Learning, Signal and Image Processing, Web Science, Neural Information Retrieval, Advanced Programming

Jilin University, China 09/2017 – 06/2021
Bachelor of Engineering in Software Engineering *GPA: 87.3%*

- Main Courses: Object-oriented Programming, Linear Algebra, Database Principles, Probability and Statistics, Advanced Mathematics, Operating System Principles, Compiler Principles and Implementation

PROJECT EXPERIENCE

Web Scraping and Movie Website Development 09/2024 – Present

- Scraped static and dynamic web pages from Douban, utilizing BeautifulSoup, Requests, and Selenium to extract movie details such as titles, release dates, and directors
- Assembled the scraped data and stored it in an SQLite database for efficient retrieval and management
- Developed a movie information website using Django for the backend and Vue.js for the frontend, creating a user-friendly interface to display movie data
- Planned and designed future features including user login and form submissions for movie review keywords, with the goal of building a personalized movie recommendation system

Anatomical Prior-based Segmentation of Deep Brain Nuclei using Adversarial Training 02/2023 – 06/2023

- Investigated different approaches for introducing anatomical priors through adversarial training to U-Net
- The U-Net with adversarial training exhibited an average improvement of 0.04 in Dice coefficient compared to the single U-Net on the test set, while also achieving an average reduction of 1.8 mm in Hausdorff distance
- Investigated the challenges specific to adversarial training and identify the key factors that impact the success of adversarial training
- Summarized guidelines for adversarial training according to experiments

Implementation of Recommender Systems 02/2022 – 03/2022

- Implemented and evaluated Collaborative Filtering, Content Based and Hybrid Recommender Systems
- Cleaned and preprocessed 5-core subset in the Software category of the Amazon Review Data
- Used Rank-based Utility Measures to evaluate the recommendations of each recommender system, the hybrid recommender system based on weighted strategy and TF-IDF model have bestperformance

Research on Medical Sample Amplification Algorithm Based on Generative Network 02/2021 – 06/2021

- Compared the effects of three GAN models (WGAN-GP, SAGAN and ConSinGAN on medical image samples.
- Used these three GAN models to double the train set and keep the test set unchanged. The original dataset is composed of randomly captured images in the public El Salvador Atlas of Gastrointestinal Video Endoscopy
- Combined LBPH and SVM to classify the original data set and the amplified data set
- Compared the classification results, the data set amplified by ConSinGAN is improved by 5% than original data set

SKILLS

Programming Languages: C, C++, Python, JavaScript, HTML, CSS, SQL
Data Processing & Machine Learning: Pandas, NumPy, PyTorch, TensorFlow
Web Development: Django, Vue.js, SQLite
Web Scraping: BeautifulSoup, Requests, Selenium