Kaiyuan Wei

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EDUCATION

Northeastern University, Boston, MA   Jan 2021 - May 2023

Khoury College of Computer Sciences   GPA: 3.54/4.0

Master of Science in **Artificial Intelligence**

courses: Machine Learning, NLP, Information Retrieval, OOP, Algorithms, AI Ethics

Northeastern University, Boston, MA   Sep 2018 - Aug 2020

Bachelor of Science in **Information Technology**   GPA: 3.72/4.0

courses: Data Analysis, Java, Database Websites, Web & Mobile Development, MySQL

SKILLS

Language: Python, Java, JavaScript, Node.JS, C++

ML Tools: Hugging Face, PyTorch, TensorFlow, Keras, SciKit-Learn, Google CoLab, AWS SageMaker, Jupyter Notebook

Models: Transformer, BERT, GPT, NLTK, CNN, ResNet, ResUNet, RNN, LSTM, XGBoost, Decision Tree, Random Forest, SVM, KNN, MLP, PCA

Data Tools: MySQL, Mongo DB, Redis, Elasticsearch, Hibernate, Mybatis, Scrapy, NumPy, Pandas,

Web & Cloud: Flask, Django, Spring Boot, Vue, React, HTML, CSS, AWS, GCP, Maven

Certificate: AWS-Certified Machine Learning Specialty
Udemy-Elasticsearch and Elastic Stack

PROJECTS

OpenAI ChatBot [demo | code]   Jul 2023

- Divided front/back end, protect sensitive info (API key) on server end (Node.JS)
- Tuning the response from OpenAI API by prompts tuning

Vertical Search Engine [demo | code]   Apr 2023

- Rapidly scraped large number of webpages using multiple threads, stored result in Elasticsearch;
- Designed interface to retrieve and analyze docs from ES that related to query terms.

Q&A ChatBot [demo | code]   Dec 2022

- Integrated End-To-End Network with LSTM model to achieve a Q&A ChatBot
- Deployed model with Flask frame as a system service on Linux server (AWS)

Movie Recommend Model [demo | code]   Nov 2022

- Reduced size and enhance speed of the model by using Item-CF;
- Recommended movies according to cosine distance between query and stored dataset

EXPERIENCE

Full Stack Web Developer | Napa Reserve Fine Wines (Shanghai, China)   Jun 2013 - Jan 2018

- Adopted dynamic technique (JavaScript/CSS/jQuery) for company website;
- Designed and implement the backend structure of website using Python & Django;
- Improved performance & stability by optimizing indexes and database sharding.

ACTITITIES

course: Natural Language Processing with Python (Udemy)

course: Intro to TensorFlow for Deep Learning (Udacity)

course: Computer Vision with OpenCV and Deep Learning (Udemy)