Kaiyuan Wei

978-594-2751 | rexxwei@outlook.com | GitHub | LinkedIn | Website

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++, R
ML Tools: Hugging Face, PyTorch, TensorFlow, Keras, SciKit-Learn, OpenCV, NumPy, Pandas, 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, Scrapy, Docker, Ubuntu/CentOS
Web Frame: Django, Flask, React, BootStrap, HTML, CSS
Certificate: AWS - Certified Machine Learning Specialty
Udemy - Computer Vision with OpenCV & Deep Learning

Working Experience

Full Stack Engineer | Napa Reserve 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.

PROJECTS

OpenAI ChatBot [link | code] — Jun 2023

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

Q&A ChatBot [link | 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)

Tumor Detection [code] — May 2022

- Integrated ResNet & ResUNet for pixel level classification and image segmentation
- Exploited Transfer Learning for pre-trained model with Keras

Facial Emotion Classifier [link | code] — May 2022

- Exploited CNN for key points located, ResNet18 for emotion classification
- Deploy and combined two models on AWS for result demo and visualization

ACTITITIES

course: Intro to TensorFlow for Deep Learning (Udacity)
course: Natural Language Processing with Python (Udemy)
course: Elasticsearch 8 and the Elastic Stack (Udemy)