Siqi Xiao (She/Her)

LOS ANGELES, CA 90015 | siqix1122@outlook.com | (608)-515-0956 | https://xiao-siqi.github.io/

www.linkedin.com/in/siqix/ | https://github.com/Xiao-Siqi

Education

University of Southern California, MS in Computer Science - Applied Data Science   Aug 2023 - May 2025
- **Coursework:** Machine Learning for Data Science, Foundations of Data Management

Shanghai Jiao Tong University, BS in Electrical and Computer Engineering   Sept 2019 – Aug 2023
- Minors: Data Science, Entrepreneurship
- Honors: 1st class Outstanding Scholarship, Academic Progress Scholarship
- Exchange Programs: McGill University, University of Wisconsin-Madison
- **Coursework:** Data Structures and Algorithms, Operating Systems, Introduction to AI

Skills

Programming Languages: Python, C/C++, Java, JavaScript

Frameworks & Technologies: PyTorch, TensorFlow, MySQL, NoSQL, MongoDB, Firebase, Hadoop, Apache Spark, HTML, CSS, React JS, NodeJS, SpringBoot, RESTful API, Docker, AWS, Git, Tableau, Linux, Excel

Project Management: Agile (sprint planning/review, Kanban)

Languages: English (Fluent), Chinese (Native)

Experience

AI Integration & Data Engineer Intern, 211 LA – Los Angeles, CA   June 2024 – Present
- Improved the first-time correspondence and referral rates by over 500% and enhanced customer satisfaction by integrating AI features into the website and system.
- Analyzed data from the past 5 years using Tableau to build caller profiles, identifying the target population for higher user satisfaction.
- Collaborated with the UXUI team and 3 AI companies to redesign the website and build a unified AI system, increasing the second interaction rate and performing SEO.
- Conducted internal testing to ensure the chatbots performance met standard criteria and improved by feeding more protocols, taxonomy, and call examples into models.

Research Leader, Shanghai Municipal Project   June 2022 – Dec 2023
Application of Deep Learning in Diagnosis of Periapical Diseases
- Led an AI-driven medical imaging project. Trained a deep learning model of 94.7% in apical periodontitis (AP) grade classification, aiding clinical diagnosis by predicting the di-PAI index for doctors.
- Directed data cleaning and augmentation, pre-trained the model on 4 public datasets using self-supervised techniques, and fine-tuned it with 860+ digital periapical films collected from clinics.
- Directed further API development and model adjusting, ensuring project execution and successful integration into clinical practice.

Projects

Generative AI-Driven Large Scale Data Analysis About Bigfoot Sightings   Jan 2024 – May 2024
- Led an innovative GenAI Bigfoot sightings analysis project by leveraging cutting-edge data science and Generative AI technologies, from data engineering to image generation and Entity Recognition, and finally ended with *visualization website* development.
- Performed NER, object recognition, and feature extraction using machining learning and NLP, and found sighting trends through generated images and captions using Stable Diffusion and Tika Image Dockers.
- Developed an interactive web-based platform using D3.js, integrating geolocation data, AI-generated content,

and interactive visualization to present comprehensive insights into Bigfoot sightings.

A Meta Information-Aware Network for Fine-Grained Visual Classification May 2022 – Nov 2022

- Developed a pioneering Meta Information-Aware Network tailored for advanced computer vision tasks in Python, orchestrating full-cycle development from model design to training protocol refinement.
- Infused Deep Learning model design with advanced contrastive learning and self-learning techniques, elevating performance, and adaptability benchmarks; boosted training efficiency in Fine-Grained Visual Classification tasks by 80% and set a new benchmark in AI-driven visual recognition tasks.

Publication

Starting Up STEAM in China: A Case Study of Technology Entrepreneurship for STEAM Education in China Springer, 17 June 2022