Siqi Xiao (She/Her)

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Education

University of Southern California, MS in Computer Science - Applied Data Science — Aug 2023 - May 2025

- **Coursework:** Machine Learning for Data Science, Applied Natural Language Processing, Data Management, Applications of Data Mining, Web Technologies

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
- **Coursework:** Data Structures and Algorithms, Operating Systems, Introduction to AI

Skills

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

Frameworks & Technologies: PyTorch, TensorFlow, Sklearn, MySQL, NoSQL, MongoDB, Firebase, Hadoop, Apache Spark, HTML/CSS, NodeJS, React.js, RESTful API, Docker, Git, Tableau, Linux, AWS, Azure, GCP, AJAX

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

Mathematical Skills: Linear Algebra, Statistics, Probablistics in Engineer

Experience

Machine Learning Engineer Intern, 211 LA – Los Angeles, CA — June 2024 – Aug 2024

- Designed a chatbot for the website, enhancing call handling efficiency by 32% and satisfaction rates by 11%.
- Analyzed data from the past 5 years using Tableau to build caller profiles, identifying target market's key demographic features and the most frequently asked questions.
- Collaborated with the UX/UI team and three other AI companies to redesign the website logic and develop a unified AI system, increasing the second interaction rate and SEO performance by 18%.
- Conducted internal testing to ensure the chatbot's performance met standard criteria and made improvements by incorporating more protocols, taxonomy, and call examples into models, leading to an expected 300% improvement in first-time correspondence and referral rates.

Projects

Application of Deep Learning in Diagnosis of Periapical Diseases — June 2022 – Dec 2024

- 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.

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 ***Bigfoot Analysis 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.