SIQI XIAO (She/Her)

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EDUCATION

University of Southern California Aug 2023-May 2025(expected)
Master in Computer Science - Applied Data Science
Coursework: Machine Learning for Data Science, Foundations of Data Management

Shanghai Jiao Tong University Sep 2019-Aug 2023
Bachelor in Electrical and Computer Engineering
Minors: Data Science, Entrepreneurship
Honors: 1st class Outstanding Scholarship, Academic Progress Scholarship
Exchange Programs: McGill University (Jan 2021-Feb 2021), University of Wisconsin-Madison (Jan 2023-May 2023)
Coursework: Data Structures and Algorithms, Operating Systems, Introduction to AI

SKILLS

- Programming Langugaes: 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)
- Hobbies: Tennis, Guitar, Singing (Choir/A cappella)

EXPERIENCE

AI Integration & Data Engineer Intern, 211 LA, Los Angeles 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 UX/UI 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 chatbot's performance met standard criteria and improved by feeding more protocols, taxonomy, and call examples into models.

Research Leader, Shanghai Municipal Project Jun 2022-Dec 2023
Application of Deep Learning in Diagnosis and Treatment 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.

ACADEMIC 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 site development (https://xiao-siqi.github.io/bigfootanalysis/)

- 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

Research Assistant, 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

Publications

- **Ro, S., Xiao, S., Zhou, Z. (2022).** Starting Up STEAM in China: A Case Study of Technology Entrepreneurship for STEAM Education in China. In: Ray, P., Shaw, R. (eds) Technology Entrepreneurship and Sustainable Development. Disaster Risk Reduction. Springer, Singapore. https://doi.org/10.1007/978-981-19-2053-0_6