Keming Xing

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Education Background

Northeastern University, Boston, MA **May 2026**

Master of Electrical and Computer Engineering, Concentration in Computer Vision, Machine Learning, and Algorithms

Relevant Courses: Advanced Machine Learning, Data Visualization, Introduction to Algorithms

Wenzhou Kean University, Wenzhou, China **June 2024**

Bachelor of Science in Computer Science and Technology, Minor in Math and Applied Math

Relevant Courses: Artificial Intelligence, Introduction to Computer Vision, Software Engineering, Game Programming

Technical Skills

Programming Languages: Java, Python, C, C++, C#

Libraries: OpenCV, NumPy, TensorFlow, PyTorch, Pandas, Matplotlib, Scikit-learn

Machine Learning: Ensemble models, Random Forest, Decision tree, KNN, SVM, Naive Bayes, K-Means

Professional Experience

Kean-University, Wenzhou, China **March 2021-May 2024**

Research and Teaching Assistants, College of Science, Mathematics and Technology

- Organized various academic activities, including hosting the largest academic symposium at Wenzhou-Kean University, which attracted over 300 attendees.
- Served as a Teaching Assistant for over 30 students, providing hands-on instruction in Python programming, data analysis, and algorithm implementation, bridging theoretical concepts with practical applications.
- Oversaw major events and public relations efforts, managed a team of over 60 student ambassadors. Designed and executed large-scale events like Open Day and the International Cultural Exchange Festival, each engaging 300+ participants.

Beijing DXC Technology, Wenzhou, China **July 2021-September 2021**

Software Testing Engineer

- Conducted software automation and functional testing for specific modules, developing detailed test case descriptions and completing 40% of the overall project testing requirements.
- Collaborated closely with a 15-member development team to gather user requirements, ensuring alignment on iterative development needs.
- Streamlined communication channels between QA and development teams to enhance workflow efficiency and reduce feedback cycles.

Academic Projects

Spam Detection with Machine Learning **November 2024-December 2024**

- Achieved over 95% accuracy in Spam classification using Random Forest and Support Vector Machine models.
- Applied PCA to reduce dimensionality from 1,000+ features, improving model accuracy by 5%.
- Utilized heatmaps and other visualization techniques in Matplotlib to streamline pre-modeling analysis, reducing analysis time and effectively presenting insights through visual data representation.

Correction of Pen-Holding Posture Using Computer Vision **April 2024-June 2024**

- Completed the entire project lifecycle as both Project Leader and Programmer, including image acquisition, data preprocessing, model development, and data analysis.
- Utilized MediaPipe for image acquisition, significantly improving frame rates through optimization.
- Developed a Random Forest model, achieving and maintaining a real-time accuracy rate of 92%.

Farm Suitable Crop Data Analysis **April 2024-June 2024**

- Optimized the dataset through feature analysis and preprocessing to enhance model performance.
- Built a Random Forest model using scikit-learn for machine learning tasks.
- Assessed model performance and used data visualization to present results effectively.