

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
<i>Research and Teaching Assistants, College of Science, Mathematics and Technology</i>	
<ul style="list-style-type: none">Collaborated with professors on applied machine learning projects, focusing on algorithm implementation, model optimization, and deployment of Python-based solutions in research prototypes.Served as a teaching assistant for 30+ students, delivering practical instruction in Python programming, data structures, and algorithm design, and supporting hands-on coding labs that bridged theory and application.Contributed to team-based development workflows, including code reviews, documentation, and testing to improve the reliability and scalability of research software tools.	
Beijing DXC Technology , Wenzhou, China	July 2021-September 2021
<i>Software Testing Engineer</i>	
<ul style="list-style-type: none">Built and executed automated test suites for core modules (40%+ coverage), reducing manual QA time by 30% and improving release stability.Collaborated with developers to identify and resolve critical defects, cutting post-release issues by 25%.	

Academic Projects

Spam Detection with Machine Learning	November 2024-December 2024
<ul style="list-style-type: none">Designed and implemented a spam email classifier in Python to identify unsolicited emails, achieving 95% accuracy by optimizing Random Forest and SVM models.Applied Principal Component Analysis (PCA) to reduce dimensionality from 1,000+ features, which improved model accuracy by 5% and reduced training time by 20%.Developed an automated feature engineering pipeline and visualized feature importance with Matplotlib, improving scalability, reproducibility, and accelerating feature selection for modeling.	
Correction of Pen-Holding Posture Using Computer Vision	April 2024-June 2024
<ul style="list-style-type: none">Designed an end-to-end computer vision system with MediaPipe and Random Forest, achieving 92% real-time accuracy in posture detection.Optimized frame capture and processing pipeline, improving responsiveness by 35% and enabling instant corrective feedback.	
Farm Suitable Crop Data Analysis	April 2024-June 2024
<ul style="list-style-type: none">Built a data processing pipeline and Random Forest model in scikit-learn to recommend optimal crops from soil and climate data.Enhanced model performance through feature optimization and visualized results for clear, actionable recommendations.	