

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>	
● 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>	
● 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
● 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	
● Designed an end-to-end computer vision system with MediaPipe and Random Forest, achieving 92% real-time accuracy in posture detection.	April 2024-June 2024
● Optimized frame capture and processing pipeline, improving responsiveness by 35% and enabling instant corrective feedback.	
Farm Suitable Crop Data Analysis	
● Built a data processing pipeline and Random Forest model in scikit-learn to recommend optimal crops from soil and climate data.	April 2024-June 2024
● Enhanced model performance through feature optimization and visualized results for clear, actionable recommendations.	