

# Keming Xing

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## Education Background

<b>Northeastern University</b> , Boston, MA	<b>May 2026</b>
Master of Electrical and Computer Engineering, Concentration in Computer Vision, Machine Learning, and Algorithms	
<b>Relevant Courses:</b> Advanced Machine Learning, Data Visualization, Introduction to Algorithms	
<b>Wenzhou Kean University</b> , Wenzhou, China	<b>June 2024</b>
Bachelor of Science in Computer Science and Technology, Minor in Math and Applied Math	
<b>Relevant Courses:</b> Artificial Intelligence, Introduction to Computer Vision, Software Engineering, Game Programming	

## Technical Skills

<b>Programming Languages:</b> Java, Python, C, C++, C#
<b>Libraries:</b> OpenCV, NumPy, TensorFlow, PyTorch, Pandas, Matplotlib, Scikit-learn
<b>Machine Learning:</b> Ensemble models, Random Forest, Decision tree, KNN, SVM, Naive Bayes, K-Means

## Professional Experience

<b>Kean-University</b> , Wenzhou, China	<b>March 2021-May 2024</b>
<i>Research and Teaching Assistants, College of Science, Mathematics and Technology</i>	
<ul style="list-style-type: none"><li>Collaborated with professors on applied machine learning projects, focusing on algorithm implementation, model optimization, and deployment of Python-based solutions in research prototypes.</li><li>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.</li><li>Contributed to team-based development workflows, including code reviews, documentation, and testing to improve the reliability and scalability of research software tools.</li></ul>	
<b>Beijing DXC Technology</b> , Wenzhou, China	<b>July 2021-September 2021</b>
<i>Software Testing Engineer</i>	
<ul style="list-style-type: none"><li>Built and executed automated test suites for core modules (40%+ coverage), reducing manual QA time by 30% and improving release stability.</li><li>Collaborated with developers to identify and resolve critical defects, cutting post-release issues by 25%.</li></ul>	

## Academic Projects

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