WYATT MAYOR

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OBJECTIVE

Graduate Student in Computer Science with four years of software development experience, actively seeking full-time roles in Machine Learning Engineering and Data Science. My goal is to leverage my technical skills and knowledge in these innovative fields.

EDUCATION

Master of Computer Science, University of Illinois Urbana-Champaign — Expected 2024
Relevant Coursework: Deep Learning for Computer Vision, ML for Compilers and Architectures, Software Engineering I, Data Mining Principles

Bachelor of Computer Science, Monmouth College — 2021 - 2023
Relevant Coursework: Machine Learning, AI, Data Structures, Operating Systems

SKILLS

Technical Skills	Python, C, C++, Java, SQL, Windows, Mac
Soft Skills	Problem Solving, Detail Oriented, Organized, Effective Communicator, Personable
Frameworks/Tools	Pytorch, Keras, Tensorflow, NumPy, SciPy, Sci-kit learn, Matplotlib, Seaborn, Gensim

EXPERIENCE

Undergraduate Machine Learning Researcher — June 2022 - Aug 2022
University of Arizona — *Tucson, AZ*

- Integrated and tested advanced Deep Neural Networks for shadow detection on road signs, significantly enhancing visibility and reliability for autonomous vehicle systems.
- Innovated a Generative Adversarial Neural Network approach to effectively remove shadows from images, markedly improving classification accuracy for autonomous driving applications.
- Authored a detailed, well-documented research paper, effectively communicating complex machine learning concepts and the project's breakthroughs to a broad audience.

PROJECTS

Oriented Object Detection on Fisheye Security Cameras. Engineered a groundbreaking object detection system with PyTorch, designed to predict oriented bounding boxes on fisheye security camera datasets. This pivotal project not only showcased my advanced proficiency in PyTorch, but also established a base for in-depth human traffic flow analysis, demonstrating my capability in developing sophisticated computer vision applications. (Repository)

The Scot Bot. During my Senior Project at Monmouth College, I pioneered the development of 'The Scot Bot', a sophisticated tool that leveraged a custom data scraping and formatting algorithm to produce an annotated question-and-answer text dataset. This endeavor involved seamlessly integrating a large language model to efficiently manage open-domain queries about Monmouth College courses. Additionally, I honed my expertise in crafting visualizations for machine learning models, significantly enhancing their comparability and clarity. (Repository) (Video demonstration)

PUBLICATIONS

- Shadows Aren't So Dangerous After All: A Fast and Robust Defense Against Shadow-Based Adversarial Attacks. (View Paper)

ACHIEVEMENTS

- Computer Science Award - Senior Project, Computer Science Award - Introductory Sequence, Dean's List (2019-2024)