Katherine Greed

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EDUCATION

Duke University   Expected Spring 2024
Master of Engineering in Artificial Intelligence   GPA: 4.0
NCAA D1 Duke Women's Rowing

University of Notre Dame   Fall 2019 – May 2023
Major: Computer Science, Minor: Engineering Corporate Practice   GPA: 3.764
Dean's List – Fall '22, Spring '20, Fall '20
NCAA D1 Notre Dame Women's Rowing – Team Captain & 3x All-Atlantic Coast Conference Academic Team

RELEVANT COURSEWORK

- *Applied Computer Vision* – Built & deployed scalable models including image classification, object detection, segmentation, and generation
- *Deep Reinforcement Learning Applications* – Learned deep learning theory & extensive project-based applications
- *Large Language Models for Generative AI* – Explored gen AI through full-stack development of RAGs, LLMs, etc.
- *Modeling Process & Algorithms* – Deep understanding of the modeling process from end-to-end. Examined strengths, weaknesses, assumptions, and use cases for each model type
- *Optimization in Practice* – Gained skills to mathematically formulate business problems, use leading software, and generate optimum solutions and meaningfully interpret results for actionable business items.
- *Sourcing for Data Analysis* – Sourced data from diverse channels, evaluated data quality, performed exploratory analysis

Skills: NumPy, Pandas, PyTorch, Scikit-Learn, Statistical Analysis (SAS), SQL, TensorFlow

WORK EXPERIENCE

Center for Research Computing: Trusted Artificial Intelligence (Notre Dame, IN)   Fall 2022 – Spring 2023
Undergraduate Researcher
- Worked under Dr. Paul Brenner to conduct research on the Trusted Artificial Intelligence project
- Explored natural language processing tools and knowledge graphs to generate AI for the U.S. Navy

Amazon.com, Inc. (Seattle, WA)   Summer 2022
Software Development Engineer Intern – Amazon Fulfillment Technology
- Developed full stack tool to build and break-down test data via a Tier 1 System for internal and external clients
- Reduced the turnaround time to obtain test data by 50% by automating several key, and otherwise manual, steps, while also mitigating risks due to human error in the data compilation process.
- Worked closely with AWS services including: API Gateway, AWS Lambda, DynamoDB

CAMPUS LEADERSHIP AND ACTIVITIES

NCAA Notre Dame Women's Rowing   2019 – 2023
Team Captain (coxswain)
- Monogram Club Member – 4 year varsity athlete
- Committed approximately 25+ hours a week to training, meetings, travel, and competition
- Named to the All-Atlantic Coast Conference Academic Team
- Named a Collegiate Rowing Coaches Association National Scholar-Athlete – Spring '22, '23
- Named to the Atlantic Coast Conference Academic Honor Roll – Spring '20, '21, '22, '23

Student Athlete Advisory Committee   Fall 2020 – Spring 2023
Executive Board Member
- One of nine Executive Board Members that represented the interest of 500+ athletes across 26 athletic teams by organizing community service events, coordinating *Name, Image, Likeness* initiatives, and fostering team bonding activities
- Led the *Irish Strong* initiative which highlighted the importance of mental health advocacy through panels, workshops, and speakers