Madeline Spawn

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Education

Oregon State University September 2023 – June 2025
Master in Artificial Intelligence *Corvallis, OR*

Oregon State University September 2022 – June 2024
Bachelor of Science in Computer Science *Corvallis, OR*

Experience

Graduate Teaching Assistant September 2024 – Present
Oregon State University *Corvallis, OR*

- Collaborated with faculty to hold office hours, graded assignments, and provided academic support to over 70 students.

Information Technology Student Support Specialist November 2022 – Present
Oregon State University *Corvallis, OR*

- Provided expert technical support by efficiently handling incoming calls and tickets, troubleshooting diverse software and hardware issues to ensure smooth IT operations, while leveraging strong communication skills to diagnose and resolve problems.

Software Development Engineering Intern June 2024 – August 2024
McDonald's *Chicago, IL*

- Developed a full stack application using React.js, .NET backend, and REST APIs to optimize data retrieval in several development environments for several markets.

Artificial Intelligence Research Assistant Intern June 2023 – November 2023
Keywords Studios *Remote*

- Optimized AI model performance by refining prompts based on feedback, collecting and curating training data, and collaborating with research and engineering teams to implement and validate model enhancements.

Current Research Projects

Artificial Intelligence Research September 2024 – November Present
Oregon State University *Corvallis, OR*

- Currently researching under Karthika Mohan on causal inference's application to Artificial Intelligence, Machine learning and Deep Learning

Development Projects

Urban Noise Prediction from Aerial Imagery September 2024 – Present

- Currently developing a multi-modal approach to integrate GIS data with high-resolution aerial imagery for urban noise prediction.

College of Business AI Chatbot March 2024 – June 2024

- Developed a fine-tuning script and implemented a retrieval-augmented generation (RAG) approach, including vectorization and pipeline integration.

LSTM-NN for Traffic Prediction During Wildfires January 2024 – March 2024

- Developed an LSTM neural network model using high-resolution data from the Caltrans Performance Measurement System to predict traffic patterns.

Technical Skills

Languages: Python, C, C++, C#, SQL, JavaScript, HTML/CSS, R
Frameworks/Libraries: Node, React.js, Pytorch, Keras, TensorFlow
Tools: Git, Github, VS Code, Visual Studio, Jet Brains IDE's (PyCharm, Rider, CLion), Google Colab, Jupyter Notebook, LaTex, Huggingface
Data Analysis/Visualization: Pandas, NumPy, Matplotlib, Seaborn