Riley Oest

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LinkedIn

Handshake

GitHub

Education

Louisiana State University

Bachelor's in Computer Science

Concentration in Data Science & Analytics

Minor in Mathematics

- Expected Graduation: December 2024
- GPA = 3.2 / 4.0

Macomb High School

High School Diploma

- Graduated: May 2020
- GPA = 3.4 / 4.0

Experience

Machine Learning Engineer

LSU Mathematics Department

September 2023 - Present

- Building algorithmic investment strategies for options trading

> Advised and collaborated with:
>
> - Kurtay Ogunc : kurtay@lsu.edu

Applied Research Scientist

LSU Mathematics Department

January 2023 - September 2023

- Developed source code for a artificial neural networks using Python libraries
- Used machine learning alrogithms to build a predictive model to noninvasively investigate the displacement of a horse hoof
- Conducted data preprocessing from data generated by infrared sensors
- Collaborated with a graduate research assistant in veterinary and clinical science and a postdoctoral researcher in mathematics to write a research paper (Still in progress)

> Advised and collaborated with:
>
> - Rita Auon : raoun1@lsu.edu
> - Frédéric Marazzato : marazzato@arizona.edu

Python Developer

Harvard GAMI (Global Alliance for Medical Innovation)

August 2022 - May 2023

- Developed Python code for data preprocessing and organization
- Worked with kinematic patient data generated by the Test Flight app via iPad drawings
- Designed functions to quantify digitized drawings so a machine learning algorithm could distinguish them between patient and control groups
- Evaluated functions and features based on their ability to distinguish between patients and controls
- Presented weekly progress to the team
- Research Paper

> Advised by:
>
> - Jake Iyer
> - Ru Li

ITS Service Desk Assistant

LSU Information Technology Services

September 2021 - September 2023 (Seasonal)

- Assisted users with technology-related issues via phone and in-person interactions.
- Experience with LSU database
- Logged tickets to track customer troubleshooting history

Applied Research Intern

LSU Mathematics Department

May 2021 - August 2021

- Worked with data acquired from DXA scans from Pennington Biomedical Research Center to predict BMI (Body Mass Index)
- Created a predictive model using machine learning algorithms that accomplishes the accuracy of a DXA scan with a smartphone application
- Worked alongside a team of both undergraduate and graduate students guided by an advisor
- Research Paper

> Advised by:
>
> - Peter Wolenski : pwolens@lsu.edu
> - Frédéric Marazzato : marazzato@arizona.edu

Interests

Programming Interests & Skills

- Artificial Intelligence
- Algorithmic Trading
- Medical Research Tools

Coding Languages

- Python
-  Java
-  C++

Guitar

- I've had a passion for playing guitar since 2018