Ryan Lagasse

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EDUCATION

Uconn College of Engineering GPA: 3.3 **2025**

Computer Science and Mathematics

- Coursework: *Computer Science, ML, Stats, Transformers, and research in machine learning, NLP, and LLMs*
- Activities: Co-founder of Quant Club, SWE with HuskyDevs, MLOps with AI club, Data Science Club

TECHNICAL SKILLS

- *Computer Languages:* Python, SQL, Java, C, C+, Rust, MatLab, HTML5/CSS3/JS, Typescript
- *Tools:* Git, PyTorch, TensorFlow, pandas, OpenCV, numpy, Scikit-learn, PostgreSQL, Kafka, Azure, PowerBI, Spark
- *Skills:* Algorithm and app development, machine learning, data science, LLM R&D
- Strong OOP skills, LLM and DL model finetuning, HuggingFace for NLP and generative AI, ML stack design

WORK EXPERIENCE

Hubbell Incorporated, *Generative AI Researcher*, Remote July 2023

- Developed procedures to evaluate and improve performance of generative AI models lowering response errors 15%
- Trained LLMs on 10-Q and 10-K financial documents to build FMs and perform advanced financial analysis

Hubbell Incorporated, *Machine Learning Engineer*, Avon, CT Summer 2023

- Built ML failure prediction models for testing for 7M+ Aclara electric meters with 99% accuracy
- Designed Teams bot using my models and Llamas to work through observations with the test engineers
- Tool is in use and saves hours of senior engineer's time and uses incremental learning to adapt to new updates

Soccer Box of Connecticut, *Electrical and Software Developer*, Wallingford, CT Summer 2022

- Developed and fabricated electrical, software, and mechanical systems for soccer training boxes
- Designed procedures for electrical and software systems integration and installation at scale
- Designed an app allowing the boxes to communicate that has run successfully for over 2 years

RESEARCH EXPERIENCE

UCONN CSE Department, *Deep Learning Researcher, Storrs, CT* 2023

- Developing a cutting-edge deep learning algorithm for the classification of life-threatening ventricular arrhythmias (VAs), addressing the primary cause of Sudden Cardiac Death (SCD)
- Improved the accuracy of our model up to 98% accuracy and lowered the model latency significantly using C

PROJECTS & LEADERSHIP EXPERIENCE

Deep Learning Model and Natural Language Analysis of Stocks, *Lead Developer* 2023

- Designed deep learning model to analyze news positivity compared to stock pricing with 95+% accuracy
- Model uses Hugging Face and other features to explain trends from the model to users with 90% accuracy

AI Email Assistant, *Lead Developer* 2023

- Uses a finned Hugging Face model and an ML stack to detect 92% of spam and phishing emails
- Engineered feature extraction from raw email text data to detect AI-written text with 82% accuracy

Autonomous Medical Response Drone, *Project Manager / Lead AI Engineer* *2023*

- Designed an autonomous decision-making system using a zero-shot CNN to land 98% within 5 feet
- Leading a team of 10 engineers to iterate through prototyping, testing, and refinement of drone hardware