BEN BROWN

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OBJECTIVE

Seeking a full time research-based position in the fields of Machine Learning, Statistics, and Ethical AI.
Available post-graduation in May 2024

EDUCATION

Bachelor of Electrical Engineering, Rochester Institute of Technology (RIT)　　　　　Expected 2024
Relevant Coursework: Applied Statistics, Artificial Intelligence, Differential Equations, and Physics.
GPA: 3.04

SKILLS

Software	Python, PyTorch, TensorFlow/Keras, Jupyter, C/C++, MATLAB, Assembly (MSP430), React (JS)
Hardware	Circuit Analysis (AC/DC), SMT/THT Soldering, PCB Design (Altium), Verilog/VHDL

EXPERIENCE

Electrical Intern D　　　　　　　　　　　　　　　　　　　　　　　　Jan 2023 - Aug 2023
L3Harris Technologies　　　　　　　　　　　　　　　　　　　　　　　　*Rochester, NY*

- Produced largest prototyping run seen by sector in record time in a non-production facility
- Collaborated to write complete test suite to automate vital hardware checks after ENV testing
- Wrote procedures and reports for small scale testing
- Immersed myself in management training and advice from my mentor (Sprint, Six Hats Method, etc)

AI Developer　　　　　　　　　　　　　　　　　　　　　　　　　　　Jan 2022 - Aug 2022
TIMET Morgantown　　　　　　　　　　　　　　　　　　　　　　　　　*Morgantown, PA*

- Collaborated with several groups in producing technology that simultaneously simplifies operator's jobs, and potentially saves the company seven figures annually
- Employed several Time Series prediction technologies, including fundamentals (RNN, LSTM, GRU) and state of the art (SCINet, FEDformer)
- Advocated for ethical implementation of technological tools to prevent reckless worker displacement
- Designed custom genetic algorithm to optimize XGBoost hyperparameters in production use

PROJECTS

Dream Presenter - RIT NXT: Used multiple EEG datasets to produce a GAN/diffusion-style architecture that can generate images from dreams based on Sleeping State neural activity. The team presented at Imagine RIT 2023.

SonicRL - EEEE-489 Final Project: Created RL agent that worked within a Sonic 1 emulator using pixels as input. Tasked with completing the first level using reward engineering, and tuning hyperparameters of DQN.

LEADERSHIP

RIT IEEE (STB20351 - Chair)　　　　　　　　　　　　　　　　　　　Sep 2020 - Jan 2022

- Serve as Chair of RIT Student Branch in order to restructure the club for success
- Generate publicity, as well as complete other administrative tasks
- Hold weekly meetings to ensure clarity and vision is shared by all Executive board
- Work on club constitution with the rest of the Executive Board