(313) 550-9052
Lehi, Utah
race.peterson@gmail.com

Race Peterson

Machine Learning Engineer

GitHub: raceee
LinkedIn: Race Peterson

Skills

Tools and Languages Python, C++, NumPy/SciPy, Pandas, Git, sklearn, NLTK, Pytorch, Tensorflow, Docker, SQL, MongoDB, Spark, LaTeX

Quantitative Tools Mathematical Optimization, Numerical Methods, Neural Networks, Machine Learning, Natural Language Processing, Vision, Time-Series Data

Communication Loves to present to large groups, and work with people of diverse backgrounds

Work Experience

Machine Learning Engineer **MAY 2021 — Present**
Noorda College of Medicine *Provo, UT*

- Collaborated to publish medical machine learning research
- Developed neural networks for audio and machine vision tasks
- Established deep learning research resources
- Managed team of developers in creation of web service

CTO, Founder **JUN 2021 — JUN 2022**
xstar *Provo, UT*

- Created a Deep Learning controlled High Frequency Trading Hedge Fund
- Obtained Venture Capitalist funding with a post money valuation of $1M
- Used Natural Language Processing (NLP) to make trading decisions

Deep Learning Research Assistant **SEPT 2020 — DEC 2020**
Utah Valley University, Computer Science Department *Orem, UT*

- Created convolutional neural net to complete imaging tasks in the medical field

NLP Intern **JAN 2019 — MAY 2020**
Halosight *Midvale, UT*

- Applied neural network research that influences hundreds of thousands of documents processed by the Halosight pipeline
- Created investigative experiments that were used by the company
- Used well known algorithms and outputs from Halosight's machine learning pipeline to calculate text relevance

Activities and Publications

Publication ID: 3751926 in the New England Surgical Society FEB 2022 — JUL 2022

- Maintained dataset integrity
- Provided pipeline optimizations
- Oversaw use of various machine learning algorithms

Precious Metal Finder FEB 2018 — SEPT 2019

- Neural net tasked to find Uranium within the United States
- Developed matching algorithm with latitude/longitude points

ML-MMORPG SEPT 2022

- Solves swarm optimization problem many multiplayer games have
- Created vector space describing player characters
- Used KMeans clustering on vector space
- Sampled points within an n-sphere to prevent counter analytics

Shopify Client Map MAY 2022

- Used HTML, Javascript, CSS frameworks along with Python-Flask
- Promoted small business of Shopify clients by mapping user data on a custom Google Map.

Education

B.S. Applied Mathematics
Minor Computer Science, *Utah Valley University* DEC 2021