RYAN CHHONG

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ngithub.com/rchhong

SKILLS

- Languages Python, SQL, R, MongoDB, Java, C++/C, LATEX
- Libraries Pandas, PyTorch, scikit-learn, matplotlib, numpy, ggplot
- DevOps Git, AWS, Mocha, Confluence, Jira, Docker
- · Other Linux, Bash
- · Hobbies Ricing, Mechanical Keyboards, Music

EXPERIENCE

May 2022 -August 2022

Machine Learning Engineer Intern, PROS

May 2021 – August 2021

Software Engineer Intern, RF Code

- Updated software created in **React** to display external analytics to help diagnose device failures and provide warnings for future failures
- Wrote custom code to facilitate fetching and caching data into a PostgreSQL Database.
- Designed custom API rate limiter using Redis
- · Utilized AWS Lambdas to automatically fetch updated analytics and unify the updates to an SQL database

EDUCATION

August 2021 -May 2023

M.S., Computer Science, University of Texas at Austin

- GPA: 3.83
- Relevant Coursework: Machine Learning, Reinforcement Learning, Fundamentals of Predictive Machine Learning, Statistical Optimization, Data Visualization, Randomized Algorithms

August 2019 -May 2022

B.S., Computer Science, University of Texas at Austin Minor: Statistics and Data Science

- GPA: 3.99
- Relevant Coursework: Data Mining, Neural Networks, Artificial Intelligence, Statistical Learning and Inference, Probability, Data Structures, Algorithms, Operating Systems, Computer Architecture, Functional Programmin

PROJECTS

March 2022 -

Wordle Reinforcement Learning Agent

May 2022

- Utilized Reinforcement Learning techniques, Natural Language Processing techniques, and Deep Neural Networks to teach an agent optimal play for the game Wordle
- Created model, training pipeline, environment, and TensorBoard logging utilizing PyTorch and Python.
- Trained agent to have a 70% Win Rate with an average game length similar to humans.

April 2021

IBM HR Analytics Employee Attrition Dataset Analysis

- Created Decision Trees, Ensemble Method Classifier, Neural Nets, K-Nearest Neighbours Classifier, and Naive Bayes Classifier using scikitlearn and numpy to predict employee attrition.
- Used **Python** and **pandas** to performed data cleaning, unsupervised anomaly detection, and feature engineering to improve the performance of these models.

April 2021

Heart Attack Dataset Analysis

- Used **R** to create Decision Trees, GAMs, SVMs, Splines, and Ensemble Methods in order to predict the likelihood of a heart attack.
- Applied subset selection to isolate the most relevant features in predicting the likelihood of a heart attack.

EXTRACURRICULARS

January 2020 -August 2021

Technical Team Member. Freetail Hackers

- Wrote mobile event app for attendees and to streamline the event experience for sponsors and organizers using React Native
- Used **Angular**, **Node**, **Express**, **and MongoDB** to optimize the HackTX applicant portal, integrate a sponsor portal, and facilitate remote Discord account verification
- Wrote a tutorial and hosted a workshop on account authentication