

Ryan Li

437-545-7090 | ryanli213123@gmail.com | linkedin.com/in/ryan-li-i2 | kaggle.com/ryanli213131

EDUCATION

McMaster University

Bachelor of Science, CGPA: 3.7

Hamilton, ON

Sept. 2023 – Present

Iroquois Ridge High School

High School

Oakville, ON

Sept. 2019 – June 2023

TECHNICAL SKILLS

Languages: Python, JavaScript, HTML/CSS, R

Developer Tools: Git, Github, Kaggle, Jupyter

Libraries: pandas, NumPy, Matplotlib, Seaborn, Plotly

EXPERIENCE

Machine Learning Researcher

Borealis AI

March 2024 – May 2024

Toronto, ON

- Participated in the Spring 2024 Let's SOLVE it program at Borealis AI
- Worked in a team environment, collaborating with 3 team members on a project investigating post-liver transplant mortality
- Benefited from the mentorship and expertise of professional ML researchers at Borealis AI, contributing to the creation of high-quality work and achieving effective results
- Presented results of the 2 month project during the program's demo day

PROJECTS

Post-Liver Transplant Mortality | Python

February 2024 - May 2024

- Collaborated on a team project aimed at developing and training a predictive model for post-liver transplant mortality rate, surpassing the performance of the MELD score
- Liver data was provided by emailing and negotiating with United Network for Organ Sharing,
- Conducted visualization analysis, feature engineering, and trained diverse models on liver data, including Decision Tree, Random Forest, Logistic Regression, and XGBoost
- Implemented confusion matrix and visualization plots to assess performance of the models

NBA Players Analysis | Python

January 2024 - May 2024

- Performed analysis on height and weight of NBA players
- Visualized plots to show correlation between physical traits and game performance
- Developed trendlines to illustrate the evolution of three-point shooting among NBA centers across various eras
- Engaged in feature engineering, such as label and one-hot encoding to identify and explore targeted features for analysis.

NBA Player Salary Predictor | Python

May 2024 - July 2024

- Web scraped on Hoopshype to collect player salary data, player statistics were gathered from Kaggle
- Applied feature engineering techniques and integrated multiple data frames to select optimal features.
- Created a preprocessor pipeline to impute missing data, and one-hot encode categorical data
- Utilized regression models including Decision Tree, Random Forest, XGBoost, and AdaBoost. Random Forest model achieved highest performance, with an R^2 score: 0.67, and the lowest MAE and RMSE values
- Employed SHAP values to visualize feature importance and analyze key features

Personal Portfolio | Python

April 2024 - May 2024

- Created personalized portfolio website using HTML, CSS, and jQuery to display previous projects and achievements
- Icons were imported through Boxicons
- Used ScrollReveal.js and typed.js to produce smooth animations and user-friendly interface