# Ryan Li

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## Education

**McMaster University** — Hamilton, ON
*Bachelor of Science, CGPA: 3.7* — *Sept. 2023 – Present*

**Iroquois Ridge High School** — Oakville, ON
*High School* — *Sept. 2019 – June 2023*

## Technical Skills

**Languages**: Python, SQL, HTML, R
**Developer Tools**: Git, Kaggle, Jupyter
**Libraries**: pandas, NumPy, Matplotlib, Seaborn, Plotly

## Experience

**Machine Learning Researcher** — March 2024 – May 2024
*Borealis AI* — *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

**Math Society Executive** — September 2021 – June 2023
*Iroquois Ridge High School* — *Oakville, ON*

- Provided weekly math assistance at drop-in clinics to younger students, tailoring content to optimize engagement
- Organized and facilitated math events (e.g. monthly contests), to encourage participation and create a motivated and passionate learning environment

**1188 Lorne Scots** — Sept. 2019 – June 2020
*Oakville Army Royal Canadian Cadets* — *Oakville, ON*

- Led and trained juniors during weekly marching practice and training
- Coached juniors in marching band during weekly practices, assisting them with various drills and exercises
- Attended cadet military parades, summer training and camping events

## 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.