

RUYIQU

DOUBLE MAJOR IN MATHEMATICS AND COGNITIVE SCIENCE

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<https://ruyiq.github.io>

SKILLS

Programming C++, Python, Java, HTML/CSS/JavaScript, L^AT_EX, PHP
Analytics Tableau, SQL, Excel, R, Jamovi/SPSS
Languages Mandarin, English
Libraries Scientific Computing (NumPy, SciPy), Data Manipulation (Pandas), Machine Learning (Scikit-Learn, PyTorch, Keras, TensorFlow), Visualization (Matplotlib, Seaborn)

EDUCATION

University of Toronto

Toronto, ON (September 2022)

- Bachelor of Science in Mathematics and Cognitive Science
- Course Highlight: Python/R programming, Linear Algebra, Advanced Calculus, Discrete Mathematics, Probability and Statistics, Machines and Mind, Cognitive Psychology
- Last Term GPA: 4.00/4.00

WORK EXPERIENCE

VC Data Analyst Extern

RallyCry Ventures

Boston, US (May 2021 – July 2021)

- Support the deal sourcing process by identifying and screening investment opportunities and their alignment with the fund's core investment themes
- Perform and coordinate due diligence activities such as market sizing, industry and sector analysis, competitive positioning, technical feasibility, and other areas critical to investment evaluation.
- Develop financial models and analysis that forecast business performance, costs, and simulate potential return scenarios.

Product Analyst

For A Safer Space

Toronto, CA (September 2020 - May 2021)

- Drove marketing strategy by conducting competitive analysis using Excel and creating visually engaging and easy-to-understand reports with PowerPoint and SQL for presentation to the team.
- Assisted product development and marketing teams to ensure new product set-ups adhered to system requirements
- Provided data analysis to support development of new and enhanced products and reporting.

Data Analyst Intern

Huawei Canada

Toronto, ON (May 2020 - December 2020)

- Doing researches, gathering data and providing analysis in regard to AI talent mapping and industry insights.
- Work collaboratively with HR team to translate requirements into meaningful data and insights.
- Used a broad set of analytical tools and techniques (Excel, Python etc.) and delivered quantitative and qualitative insights to help improve decision making.

PROJECT EXPERIENCE

VinBigData Chest X-ray Abnormalities Detection

- Localized and classified thoracic abnormalities from chest radiographs by building models with Python.
- Trained model with 15,000 independently labeled images and evaluated a test set of 3,000 images.
- Awarded a bronze medal for Top 9 percent finish of 1,300 teams in the Kaggle Competition.

Cassava Leaf Disease Classification

- Reduced crop destruction for farmers by allowing for more efficient and accurate identification of diseased plants by classifying cassava images into four disease categories and a fifth healthy category.
- Built two models in Python (ResNet50 32x4 and EfficientNet B4) using various machine learning libraries (Torch, Scikit-learn, OpenCV, pandas, NumPy, matplotlib) and implemented 5-fold cross-validation on dataset.
- Achieved a bronze medal and Top 8 percent finish out of 4,000 teams in the Kaggle competition.