Renee Gil

✉ renee.gil@mailbox.org   in linkedin.com/in/yourprofile   ○ github.com/rngil

📍 Ottawa, Canada

EXPERIENCE

Data Scientist   May 2021 - Present
Carleton University, Ottawa, ON

- Develop data pipelines fokj/r generating, processing, and analyzing 1TB+ of data
- Develop High Performance Computing (HPC) workflows for large-scale deep learning models
- Design and conduct workshops on applied data science to chemistry

AI Data Scientist   May 2021 - Present
Carleton University, Ottawa, ON

- Develop data pipelines for generating, processing, and analyzing 1TB+ of data
- Develop High Performance Computing (HPC) workflows for large-scale deep learning models
- Design and conduct workshops on applied data science to chemistry

Machine Learning Engineer   Sep 2021 - Present
Burkett Statistical Consulting, Ottawa, ON

- Led development of optimization algorithm for car paint schedule automation for several plants of a global automotive supplier, increasing order capacity by 300% while meeting plant constraints
- Developed time series forecasting model for efficient power distribution for large users and energy storage systems, improving price forecasting accuracy by 8%
- Consulted on development of energy arbitrage algorithm based on reinforcement learning and linear programming
- Developed end-to-end machine learning pipeline for monitoring mental exertion levels in concussed individuals

EDUCATION

PhD in Chemistry   May 2021 - Present
Carleton University, Ottawa, ON

Thesis: *"Data-Driven Approaches in Covalent Drug Discovery"*

OPEN SOURCE WORK

Developer
Google Summer of Code

- Lead the development of a Julia library (Cclib.jl) for processing quantum chemistry data
- Lead the conversion of a Python library (Chemtools) from Python 2 to Python 3
- Wrote documentation and tutorials for both libraries