|  |  |
| --- | --- |
| **Ethan Bonnardeaux**  ethanbonnardeaux@gmail.com | Github: https://github.com/eth212  Website: www.ethanbonnardeaux.ml  LinkedIn: https://www.linkedin.com/in/ethan-bonnardeaux/ |

**Projects**

**Deep Learning Prediction Model**   **June 2019 – Present**

* Created a Convolutional Neural Network (**Keras** framework) to predict the median income of a postal code area using satellite data
* Wrote Excel macros to collect postal code data and parse JSON files from **Google Cloud** geocoding API on over 100,000 instances
* Converted Excel data to imagery from maps static API using python requests library
* Handled corrupt data and added precautionary layers in model to generalize and avoid overfitting

**Technical Skills**

**Languages**

* Python, C/C++, Javascript, HTML, CSS, VBA (previous experience)

**Tools/Platforms**

* Pandas, Keras, Matplotlib, OpenCV, Express, Node, React, Google Cloud, Git

**Education**

**Queen’s University, Kingston, ON September 2018 – Present**

Applied Mathematics Engineering

* Computing and communications sub-option

**Relevant Courses:**

* Introduction to Computer Science, Algebraic Structures, Digital Systems, Data Structures and Algorithms

**Experience**

**Member,** Queens Space Engineering Team **September 2018 – February 2019**

* Wrote C++ and Python scripts to parse CSV files
* Created C program to model projectile motion
* Worked in team environment and helped new members to integrate their programming skills to the club’s utilized technologies

**Head Lifeguard,** City of Toronto **March 2018 – September 2019**

* Coordinated and managed staff rotations
* Utilized effective teamwork strategies during high stress situations
* Provided information, assistance and customer service to patrons