Ethan Bonnardeaux

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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