

# LILA KELLAND

## DATA SCIENTIST

✉ lila.kelland@gmail.com  
☎ 613-614-3227  
📍 Ottawa, ON  
in lila-kelland/  
🌐 LilaKelland

Data scientist with a passion for making and learning. Skilled in problem finding and solving.

## Skills

### MACHINE-LEARNING

Scikit-Learn  
tensorflow/Keras  
NLTK  
Pre-Processing

### DATA WRANGLING

NumPy  
Pandas

### PROGRAMMING

Python  
REST API  
SQL  
MongoDB  
Swift

### TOOLS & PLATFORMS

Docker  
AWS  
Jupyter  
VS Code

### DATA ANALYSIS

Data Visualization  
Data Cleaning

## Education

Lighthouse Labs  
Diploma Data Science

Sept. 2021 to Current

Carleton University  
Bachelor Aerospace Engineering, Minor in Psychology

1999 to 2005

University of Ottawa  
Bachelor Education

2005 to 2006

## Employment

Parent "at-home"

Ottawa, ON, San Francisco, CA, Halifax, NS  
Apr. 2009 to Current

- Focused on raising three children through their critical developmental years
- Supported partner in entrepreneur endeavours

Mxi Technologies

Ottawa, ON

Solution Analyst

2007 to 2009, May 2007 to Apr. 2009

- Delivered training including SQL and Data Model internally and to clients
- Ran workshops and developed documentation as the Lead Baseline Design and Data Migration Analyst to collaborate and enable understanding on how data would impact the software operation.

## Projects

FINAL PROJECT LHL

Nov. 2021 to Current

Tools: Python, Scikit-Learn

Algorithm :TBD

Dataset: TBD

Results:

UnBurnt

May 2020 to Current

Tools: Python, C++, REST, MongoDB, Swift, Docker, IoT, APNS

- An iOS app that will alert you if the food on your BBQ is burning.
- Python code reads in and evaluates sensor values and determines the cooking state based on sensor values, the temperature slope, and the iOS user inputted cooking temperature limits.
- Push notifications are sent to the iPhone on state change (cooking, too hot, too cold, burning, off), and an alarm is set to check food at predefined time intervals.
- Python code runs as a Docker image on a Raspberry Pi server, and the system automatically turns on (sending alerts and starting timers) when the low threshold temperature is reached, and off (automatically resets for next use) once the BBQ has cooled back down below that low threshold temperature for a period of time.
- Used successfully to smoke ribs on the BBQ.

## Activities

## Custom Section 1