

# Sample Presentation Output for HackIllinois

Darin McCoy

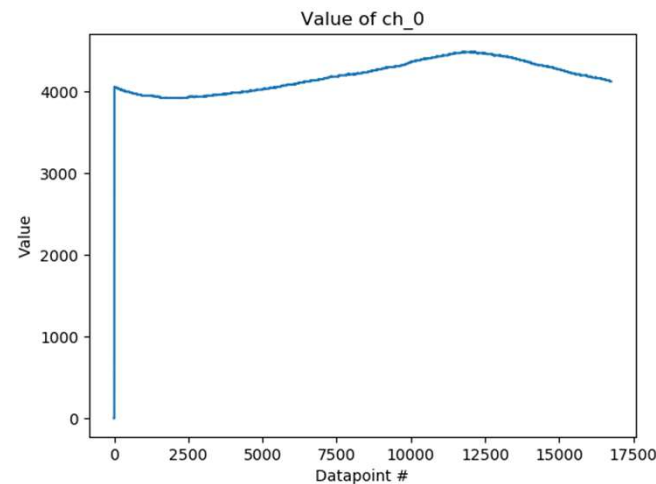
# Why give a sample presentation?

- The goal of this presentation is to show **SOME** of the things you can do with time series data.
- This is more of a suggestion and less of a prescription. Use your own ideas to show how you can best analyze IOT data!
- Also - you don't need to make a presentation. How will you best visualize analysis of time series data?
- For simplicity – this presentation was created off just a single data file and a single channel. Try to analyze as much of the data (all?) as you can!
- The code to generate content from this presentation is available in our gitlab



# Focus area on channels

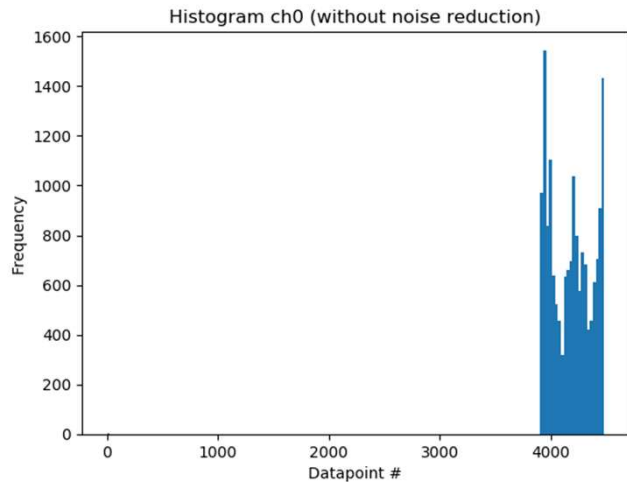
- My team focused on channels (ch0, chx, chxx, chxxx, xxxx, xxx, xxx, xxx) because.....
- XXXXXXXX
- XXXXXXXX
- XXXXXXXX



Here's what ch0 looks like!



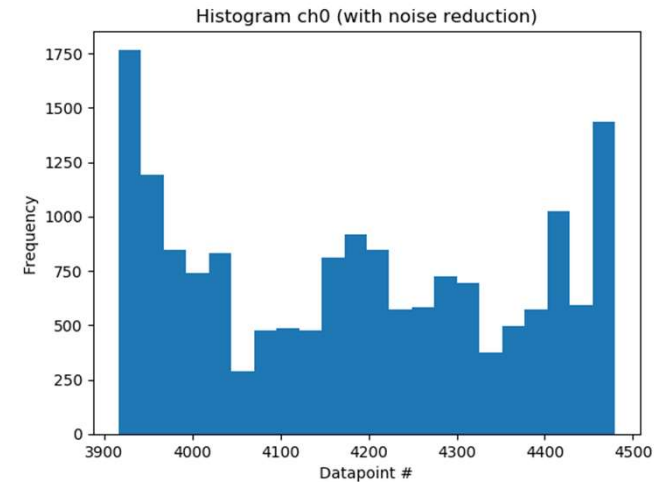
# Create a histogram... gather statistics



Histogram of channel 0 with noise

Min: 0

Max: 4480



Histogram of channel 0 without noise

Min: 3916

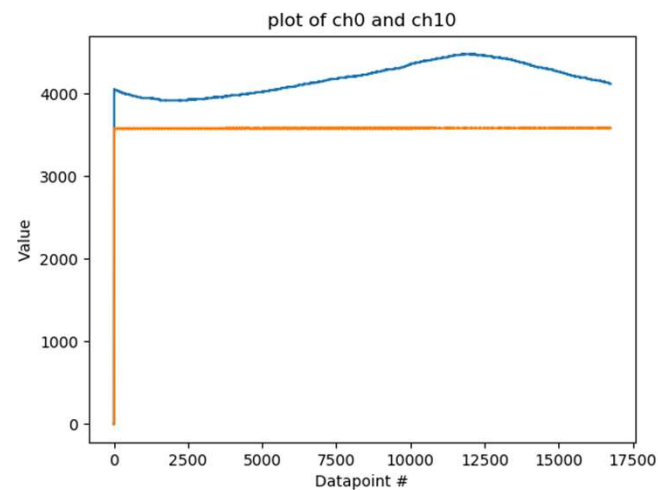
Max: 4480

Noise is defined as.... xxxxxxxx



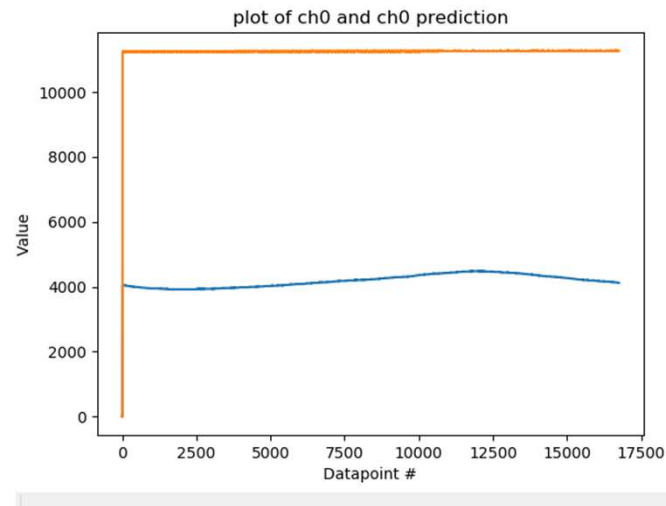
# Determine what channels are related

- Channel 0 and channel 10 seem to be sort of related with a correlation coefficient of 0.33



# Make a prediction!

- Attempting to predict channel 0 with channel 10... it has a constant error of 7070.158



# Others

- There is much much much more you can do to analyze time series data. Looking forward to seeing what you come up with!

Darin McCoy

Mentor from Caterpillar

