Meeting Notes

June 16, 2020

Measure theory --- look inot it

Endemic?

Invariant measures

Nothers therom?

Psych of a cute robot wandering around on stage

Brain is 6x more complex than the entire internet

Have they had any failed ML experiences?

Aus cities relative to core Q – how does pollution impact it

* Look at cities with long term poor air quality (LA)
* Much less overt in AUS than LA or other
* May not be infection rates rather duration/progression of disease
* Short term episodic vs long term
* Long haul groups of covid (may be more represented in populations with higher pollution)
* Take initial looks into data and see if I can actually get the data for it
  + Long haul community of those with covid
  + Durations (hospital stay etc)
* Long term levels impact duration?
* Very useful to start writing early (keep good notes)
* Seattle vs LA
  + Caveate in US is politics (controls taken in place) – compare same to same
  + Western europe had similar responses – look at those w high air pollution
  + Look at india?
    - Consistency across indian states as
* Create a hypoth say this happened in X area, does the same thing happen in X other place? Don’t compare across countries to avoid conf var
* Beragassi graphs – heavy nodes
* Ardersranny graphs (bot nets)

Covid infection rates way to normalize – density of social graphs

* To dense (aka don’t bother)

Techniques need to be tuned to the data!!

* Tricks, want to get some sense of whats going on
  + Flashing plots – pick out outliers quickly
  + Map into images – look a 1M datapoints

Look into data and see what questions are answerable!

* Jus looking at AUS isn’t rich enough
* Look at It in a few contexts

Grab similar data and explore viability – of certain question

ASSIGNMENT 4

PCA doesn’t work – gets rid of only info that makes data separable

NN does work but shouldn’t? MATLABS NN CODE Doing per feature level normalization (under the hood) – Danger is that it works in matlab but might not work cross platform

Most automated normalizations are linear – think in terms of pdf and spread as much as possible over the norm range