10/24/17

Phone call with Deepak Kolippakkam

Questions:

* 1. What is SICK
     1. Sensor manufacturing
     2. Create novel sensors for visual learning
     3. Deepak’s role:
        1. Data domain – analysis of data collected over time
        2. How can we combine environmental information with sensor information?
  2. This project
     1. Conveyor belt in distribution center (all data from same belt)
     2. Make conveyor belt as effective as possible
     3. Maintain appropriate levels of precision while maximizing throughput
     4. Main business: making sure packages ship on time
     5. Speed of belt is fast, but boxes need to be on belt
     6. Too many boxes = crash
  3. What should output be?
     1. Classification of condition
        1. Percent of LFT/day
        2. Are there any trends between certain features and LFT?
     2. Compare belt speed vs. object speed
        1. Is this for one object or all objects within this time? (outlier or trend)?
     3. Gap information
        1. OGA: gap between current and previous object
        2. Gap condition not consistent with OGA (what is the pattern?), what is the threshold
     4. Log jam
        1. Sensors may read one large irregular object instead of crammed small ones
     5. How frequently are units changing?
  4. What constitutes LFT?
     1. Whether box is fit enough for shipping
     2. Automated processed
  5. What is the main goal of the project?
     1. What are interesting trends?
     2. This is not about prediction, just about observation