**AI – NOTES**

Hour 1: ML/AI

Hour 2: Two of the technologies behind AI (NLP, CNN),

-coding TensorFlow

[EVAL]

Hour 3: Examples of AI (Deep Fake, Face++, Auto ML)

**OUTLINE**

Intro

AI Overview (30 min)

CNN (10 min)

RNN/NLP (30 min)

GCP Auto ML

Boston Dynamics (vid clips)

TF (30 min)

GCP (Auto ML)

**Conversations**

Who has a project that they are perhaps thinking of applying this to?

Self-driving car:

-would you get into an autonomous Uber today?

-choice: kill pedestrian or driver?

Artificial Intelligence (aka Cognitive technologies)

AI is what machines do, not how they do it. They don’t think like we do.

**AI (autonomous) Agents**:

Operate autonomously

Perceive their environment

Adapt to change

Create and pursue goals

-AI aims to make machines perform tasks that only humans used to be able to do

**Cognitive Technologies**:

Reasoning and planning

Learning

Perceiving

Physical Interaction (with the real world)

-There are some problems for which we don’t know how to program the solution, but computers can learn them on their own. (Cat/Dog image recognition example).

-computers can’t think or learn but they can simulate thinking and learning.

Rules-Based systems are effective if there are only a few choices (e.g., determining absolute value), where it’s fairly transparent what the rules are, otherwise they can be difficult and less effective with expansive rule options.

-we don’t really know how we recognize faces.

-for these reasons, it’s valuable that machines can learn on their own.