Name: Nikhil Raina

Title: The profiling of Computer Vision and the Challenge of Computation Empiricism

Presentation Outline April 16th, 2021 CSCI 471.03

- 1. Introduction of the paper: (Problem definition and brief key point introduction)
 - a. Profiling: Different perspectives of the meaning of 'profiling'.
 - b. Brief intro of the major 'knowledge claims' that the paper is addressing. Bulleted structure to represent these claims.
- A major focus of the knowledge claims: (Focus of the key points in the context of the paper)
 - a. General Identification and resemblance to the physical world:
 - a. Face value connection of face recognition to the physical world, that is the subjects or the people.
 - b. Apparent Personality Analysis: Depth of transition from the face value to the personality analysis of software.
- 3. Proliferation through Computer Vision: (Approaches to the problem and their significance)
 - a. 'looking at people': Describing what this phrase means in the light of facial recognition and with regards to the depth of the paper.
 - b. Computation personality analysis:
 - i. Goals of Apparent Personality Recognition
 - ii. Early representation: Discuss computation physiology.
 - 1. What is physiognomy?
 - 2. Initial Machine learning models that were used.

- 3. Progress of models to convoluted neural networks and its benefits. Use evidence from the paper.
- c. Importance of Physiognomy
- d. Application of Physiognomy
- 4. Computational Empiricism (Exploring the Key points of the problem and ways being addressed)
 - a. Extraction of information:
 - a. Photography:
 - i. Developed ways to read the information from a photograph.
 - ii. Ways of interpolating numbers and data from pictures for models to understand and predict.
 - b. The mathematical bridge between technology and the physical world.
 - a. Probabilistic nature of math:
 - Explaining why the state of the world can't be accurately predicted now. Illustrate the data weight and lack computation demanding resources.
 - ii. Discuss the introduction of paradox within invisible and hidden layers of the system.
 - c. The dominant Epistemology:
 - a. Discuss the new lines of computational empiricism being identified.
 - b. Bullet the 4 elements and give a small description of each.
- 5. Law with the world state (Conclusion)

- The legal drawbacks of having an experimental approach to the entire approach for the APR analysis.
- b. Quote the paper for evidence, mention areas that challenge the data science program thus adding to the drawbacks being faced by the scientist right now.
- c. Mention interlinking of computer vision practices with that of law.
 - a. Show how the law is perceiving the project and their views that are being portrayed.
 - b. Mention what needs to be done for advancing the CV proliferation so that the legal, conceptual, and technical thinking come to an understanding.