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DGMD S-14

19 July 2020

<div align="center">Progress Report 1</div>

Part 1 (3 points)

1. What did you accomplish in the last week?

    a. This past week, I focused on researching my project through looking at examples on the UCLA STMicroelectronics page (https://sites.google.com/view/ucla-stmicroelectronics-iot-ml/home), and looking at YouTube videos posted by STMicroelectronics for systems that would aid this project. I am currently looking into the Unicleo-GUI software as a means of bluetooth data collection and classification output. Additionally, this week I bought the Adafruit 3.7V lithium ion battery and the Adafruit PowerBoost 500 charger for the SensorTile's bluetooth usage. This week had a focus on acquiring knowledge to begin model creation, with UCLA examples as a guide and other programs as aides.

2. What roadblocks/issues did you face?

    a. Roadblocks/issues I faced this past week revolved around time, as I was busy with midterms for another class, plans with family, and more. Due to this, my productive time dedicated to this project and tutorials was quite limited.

3. What do you hope to accomplish in the coming week?

    a. This coming week I hope to officially begin building the classification model. Firstly I will finish setting up the environment and prepare the SensorTile for its usage and data collection. I plan to collect my own swing data, as well as a friend of mine's. From here, I will clean up the data and try to observe trends in the different pivots through plots and graphs. Then, I will begin training the model using the training dataset, outfitting the model with features as I go.

        i. https://github.com/riyanandakumar/Softball-Swing-Master

Part 2. (2 points)

1. Estimate the current cumulative percentage of progress for your project.
    a. My project is: 5 % completed

Part 3. (5 points)

1. Submit a presentation that summarizes your progress this past week.
    a. https://docs.google.com/presentation/d/1bZd5l9zMeI1XSk5dT7vivvEIzN9PGDcSS6QjgCWaKZk/edit?usp=sharing