**HAR PROJECT PROPOSAL**

**TEAM NAME: Explorers of Human Activity Recognition**

**TEAM MEMBERS AND ROLES:**

* **Srinivas Reddy Gogula:** 
  + **Collecting Data**
  + **Software: Programming**
* **Lakshmi Umarala:** 
  + **Collecting Data**
  + **Software: Exploring fantool**
* **Shreya Suriya:** 
  + **Hardware: Exploring MyoWare sensors**
  + **Collecting Data**

**GOAL OF PROJECT:**

**The goal of this project is to explore Human Activity Recognition and to see how accurately we will be able to identify and classify a range of different movements a human may perform into their respective classes. Our motivation behind this project is the idea that Human Activity Recognition is becoming increasingly prominent as technology advances, and unlocking the tool of being able to recognize what a human is doing through a device can solve a variety of different issues. These issues include video surveillance, healthcare, and human-computer interaction.**

**SOFTWARE AND DEVELOPMENT TOOLS:**

* **GitHub**
* **Whatsapp**
* **PROGRAMMING:**
  + **\*note, I am not sure what software we are using for coding this project, either anaconda or something else, so please fill this in**

**HARDWARE USED:**

* **Sensortile**
* **Myoware Sensors**
* **iPhone or Android Device**

**MILESTONE CALENDAR:**

|  |  |
| --- | --- |
| **WEEKS** | **TASK** |
| **WEEK 1** | * **Brainstorming Project Ideas** * **Narrowing Down on Project Idea** |
| **WEEK 2** | * **Acquiring Hardware for Project** * **Searching for HAR datasets** * **Training a model using a specified dataset** |
| **WEEK 3** | * **Continue training model to high accuracy** * **Testing the model using data collected from SensorTile** * **Working on Project Proposal** |
| **WEEK 4** | * **Continuing testing model using data collected from SensorTile** |
| **WEEK 5** | * **Finish developing an accurate model** * **Begin Collecting Hand Gesture training data from Myoware Sensors** |
| **WEEK 6** | * **Continue to collect Hand Gesture data** * **Develop and test Hand Gesture Model** |
| **WEEK 7** | * **Present Solution** |