* **Arduino Program:** Integrated sensors code gets uploaded to the Nano.
* **Arduino to Pi Program:** Reads the sensor data from the Arduino and saves the data to a new file every 200 sets of data.
* **Machine Learning Program:** Takes the read sensor data every 180 seconds and finds the Status and Condition based on the training set and that gets appended to the original sensor data.
* **GPS Module and Journey Logistics Program:** Takes the current location and finds the name of the location and how far you are from Wheatly, McCormick, Campus Center, University Hall, etc. and how much consumables you need to get there; Oxygen, Water, and battery. This is down for each row of the data.
* **Hub-to-Hub Program:** Sends the full Hub data file to the other hub and receives the hub’s full data file with all the astronauts information. It sends the hub data every 200 seconds. And receives the data in a file every 200 sets.
* **Server-Client-UnityC Programs:** The python Client sends hub 1 and hub 2 CSV data files every 180s to the server and the Server saves them to two different folders; Hub 1 and Hub2 and the Unity Client receives the data as it is sent and saves it to two folders in its Assets to use to display.

**Arduino Arduino to Pi Machine Learning GPS Module and Journey**

**Server-Client-UnityC Programs Hub-to-Hub Logistics**