**[Group 11] Assignment #4: Analy tics tools and cloud platform using real sensors**

**1. Team Member Details:**

1. Priyam Garg [pgarg6@ncsu.edu](mailto:pgarg6@ncsu.edu)
2. Divyang Doshi [ddoshi2@ncsu.edu](mailto:ddoshi2@ncsu.edu)
3. Brendan Driscoll [bhdrisco@ncsu.edu](mailto:bhdrisco@ncsu.edu)
4. Jordan Boerger [jwboerge@ncsu.edu](mailto:jwboerge@ncsu.edu)
5. Vishal Veera Reddy [vveerar2@ncsu.edu](mailto:vveerar2@ncsu.edu)

**2. Team Member Contribution:**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Tasks** | | **Members** | | | | |
| **Topic** | **Sub Tasks** | **Priyam Garg** | **Divyang Doshi** | **Brendan Driscoll** | **Jordan Boerger** | **Vishal Veera Reddy** |
| Hardware | Setting up the hardware (IMU, IoT Device) and collecting the data |  |  | 100% |  |  |
| Data Labelling | Labelling the data with appropriate labels |  |  | 100% |  |  |
| Data Processing | Processing the data |  |  |  |  | 100% |
| Data Augmentation | Detecting the door open/close event using the data received at the fly | 50% | 50% |  |  |  |
| Machine Learning  Classification Modelling | Implementation, Deployment, Feature Engineering, Training and Building of the Classification Model | 50% | 50% |  |  |  |
| MQTT Communication | Setting up the MQTT for communication between different platforms |  |  |  | 100% |  |
| Report/README | | 20% | 20% | 20% | 20% | 20% |