- # For sampling: The code is used to generate the data for creation of dataset for model training. It reads the generated maps and provides the result of various sampling methods in those maps, giving output in the form of a text file
- # For testing: This code reads the test map and tests the different sampling methods in different segments of the map. The map file and the information regarding sampling strategies for different segments is taken as input. It generates a map with non uniform sampling and finds a path for the robot
- 1 # Install Required Libraries:
- 1 # The code is mainly divided into two parts:

```
In []: 1 #1). Sampling and Testing 2 #2). Training and using the Learning model
```

## 1 # Sampling and Testing:

```
In [ ]: 1 #Use 'CNN_Obstacle_Classification.py' to classify the map segmented image
```

In []: 1 #For any clarifications, please feel free to reach out to 'dkotadia@wpi.edu'.