**Assignment 1**

1. What type of Machine Learning Algorithms would be used to allow your bipedal bot to walk in various terrains?

Answer: Reinforcement learning

1. What is the difference between online learning and out-of-the-core learning?

Answer: online learning deals with training with continuous flow of data ,while out of the core learning deals with training of large datasets that are not able to fit in one memory location

1. What is the importance of a train-dev set in machine learning?

Answer: to help reduce overfitting issue

1. If suppose your model is poorly generalizing the unseen data, what possibilities are there, and how you will solve those situations?  
     
   Answer: change your learning algorithm, hyperparameter tuning
2. What is data leakage and what can go wrong if you tune your hyperparameters on the test set?:

Answer: data leakage is when during training the target result is available to the training algorithm. It leads poor prediction