

Assignment-1

1. How would you define Machine Learning?
2. What are the two most common supervised tasks?
3. Can you name four common unsupervised tasks?
4. What type of Machine Learning algorithm would you use to allow a robot to walk in various unknown terrains?
5. What type of algorithm would you use to segment your customers into multiple groups? Explain your answer?
6. Would you frame the problem of spam detection as a supervised learning problem or an unsupervised learning problem? Explain your answer?
7. Can you name (with Example) four of the main challenges in Machine Learning?
8. What type of learning algorithm relies on a similarity measure to make predictions?
9. If your model performs great on the training data but generalizes poorly to new instances, what is happening? Can you name three possible solutions?
10. What is the difference between overfitting and underfitting
11. What is a test set and why would you want to use it?

What to Submit: Canvas Classroom.

Assignment1YourName.pdf (e.g., Assignment-1AliAburas.pdf). That contains all the answers to the above questions.