

CSCI 6020/ DASC 6020 - Machine Learning

Written Assignment: 01

The overarching goal for this assignment is to assess your understanding of basic machine learning concepts.

Type the answers in the space provided. Use Adobe Acrobat Reader DC to enter your answers. Adobe Acrobat Reader DC is downloadable for free from www.adobe.com.

1. What is artificial intelligence (AI)?
2. What is machine learning (ML)? How is ML different from artificial intelligence (AI)? Also, how are ML solutions different from the programs you have developed in the past?
3. In general, any machine learning problem can be solved by using one of the two approaches: supervised learning, and unsupervised learning. Give an example of a problem that can be solved using supervised learning, and another example for unsupervised learning.

4. One type of supervised machine learning is referred to as regression? What is regression?

5. Another type of supervised machine learning is referred to as classification? What is classification?

6. Clustering and classification are two general approaches to solving machine learning problems. How are they different? Give a concrete example for each approach.

