

ECE 5464 HW4 – Prof. Jones – HW 5

Due Tuesday, April 23, 2024 – 11:59 PM via Canvas

In the Datasets section of Canvas, you will find a file called “mushrooms.csv”. It contains information on individual samples of a number of mushrooms of a number of different species.

Using the techniques of unsupervised machine learning as we have discussed in class, determine how many species are in this dataset. Justify your conclusions.

Your submission should be a SINGLE Word or pdf file, and it should contain:

1. The answer – how many different species are represented here?
2. A written description of your method.
3. Some analysis that justifies your answer.
4. The source code for any program that you wrote to generate this analysis, using the techniques of unsupervised learning.
5. Any useful charts and graphs needed to support your answer.