



Modules



Grades



Inbox



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## Graded Assignment - 1

The due date for submitting this assignment has passed.

Due on 2024-02-04, 23:59 IST.

You may submit any number of times before the due date. The final submission will be considered for grading.

You have last submitted on: 2024-02-01, 16:46 IST

Note: For numerical answer type questions, always enter your answers as fractions and not as percentage. E.g. If you calculate the answer of a numerical question as 24.5%, enter your answer as 0.245.

It is mandatory to use sklearn.\_\_version\_\_ = 1.2.2 for solving all the questions

1) Find shape of the Wisconsin breast cancer data's feature matrix (accessed from sklearn.datasets)

2 points

- ☐ (570, 35)
- ☒ (569, 30)
- ☐ (33,569)
- ☐ (35,570)

Yes, the answer is correct.

Score: 2

Accepted Answers:

(569, 30)

2) How many benign ( B ) tumour cases are present in the Wisconsin breast cancer dataset ?

357

Yes, the answer is correct.

Score: 2

Accepted Answers:

(Type: Numeric) 357

2 points

3) How many malignant ( M ) tumour cases are present in the Wisconsin breast cancer dataset.

212

Yes, the answer is correct.

Score: 2

Accepted Answers:

(Type: Numeric) 212

2 points

**Instructions for Questions 4-6:** Use the following code for importing California Housing dataset from sklearn. Also, name the dataset as housing\_data and print description of the dataset.

```
#codeblock
from sklearn.datasets import fetch_california_housing
housing_data = fetch_california_housing()
print(housing_data.DESCR)
```

4) Find out the shape of the feature matrix in california housing dataset.

1 point

- ☐ (20118,19)
- ☒ (20640, 8)
- ☐ (8, 8)
- ☐ (8, 20640)

Yes, the answer is correct.

Score: 1

Accepted Answers:

(20640, 8)

5) Find out the labels of the first five attributes in california housing dataset. Note, the labels are real-valued.

1.5 points

- ☐ [4.526, 3.413, 3.422, 1.22, 6.02]
- ☒ [4.526, 3.585, 3.521, 3.413, 3.422]
- ☐ [3.413, 3.422, 4.526, 3.585, 1.249]

☐ [4.526, 502.0, 3.521, 3.413, 1025.5]

Yes, the answer is correct.

Score: 1.5

Accepted Answers:

[4.526, 3.585, 3.521, 3.413, 3.422]

6) Find out the name of the class label in california housing dataset(target matrix)?

**1 point**

☒ ['MedHouseVal']

☐ ['MedInc']

☐ ['AveRooms']

☐ ['Population']

Yes, the answer is correct.

Score: 1

Accepted Answers:

['MedHouseVal']