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Final Exam

Graded Quiz • 36 min

Due Nov 15, 12:29 PM +0530

Final Exam

Latest Submission Grade 83.33%

1. What type of file allows data to be saved in a tabular format?

1 / 1 point

☐ pdf

☐ html

☒ csv



Correct

2. What Python libraries were considered "Algorithmic Libraries" in this course?

1 / 1 point

2. What Python libraries were considered "Algorithmic Libraries" in this course?

1 / 1 point

- ☐ Pandas, Numpy, SciPy
- ☒ Scikit-learn, Statsmodels
- ☐ Matplotlib, Seaborn

✓ Correct

3. What tells us the way the data is encoded?

1 / 1 point

- ☒ Encoding scheme
- ☐ File path
- ☐ Data path

✓ Correct

4. What attribute or function returns the data types of each column?

1 / 1 point

☐ tail()

☒ dtypes

☐ head()

✓ Correct

5. In a dataset what is the name of the columns?

1 / 1 point

☒ Header

☐ Row

☐ Type

✓ Correct



6. The Pandas library is mostly used for what?

1 / 1 point

- ☐ Machine learning
- ☐ Data visualization
- ☒ Data analysis

Correct

7. How would you check the bottom 10 rows of dataframe **df**?

1 / 1 point

- ☐ df.tail()
- ☒ df.tail(10)
- ☐ df.head()

Correct

8. What does the following code segment perform in a dataframe?

1 / 1 point

```
mean = df["normalized-losses"].mean() df["normalized-losses"].replace(np.nan, mean)
```

- ☐ It drops rows that contain missing values
- ☒ It replaces the missing values in the column "normalized-losses" with the mean of that column
- ☐ It drops all of the rows in the column "normalized-losses"

✓ Correct

9. What does the following code segment perform in a dataframe?

0 / 1 point

```
df["a"] = 2 * df["a"]
```

- ☒ It assigns $2 * df["a"]$ back to column `df["a"]`

9. What does the following code segment perform in a dataframe?

0 / 1 point

```
df["a"]=2*df["a"]
```

- ☒ It assigns **2*df["a"]** back to column **df["a"]**
- ☐ A: It multiplies each element in the column **df["a"]** by 2
- ☐ It multiplies each element in the column **df["a"]** by 2 and assigns it back to column **df["a"]**

✗ Incorrect

10. What does the below code segment give an example of for the column "length"?

1 / 1 point

```
df["length"] = (df["length"]-df["length"].mean())/df["length"].std()
```

- ☐ It gives an example of the max-min method

10. What does the below code segment give an example of for the column "length"?

1 / 1 point

```
df["length"] = (df["length"]-df["length"].mean())/df["length"].std()
```

- ☐ It gives an example of the max-min method
- ☒ It gives an example of the z-score or standard score

✓ Correct

11. Consider the following image: what is the name of the operation that transformed the column fuel into quantitative variables?

1 / 1 point

fuel
gas
diesel



gas	diesel
1	0
0	1



11. Consider the following image: what is the name of the operation that transformed the column fuel into quantitative variables?

1 / 1 point

fuel	
gas	
diesel	
gas	
gas	



gas	diesel
1	0
0	1
1	0
1	0

- ☒ One-hot encoding
- ☐ Data standardization

✓ Correct

- ☒ One-hot encoding
- ☐ Data standardization

✓ Correct

12. What function will change the name of a column in a dataframe?

0 / 1 point

- ☐ exchange()
- ☒ replace()
- ☐ rename()

✗ Incorrect