Congratulations! You passed!

TO PASS 80% or higher

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GRADE
100%

Exploratory Data Analysis with Seaborn

LATEST SUBMISSION GRADE

100%

1. A DataFrame, **data**, contains three columns: Unnamed: 32, id, diagnosis. Which of the following options drops the 'Unnamed: 32' column inplace? — 1 / 1 point

- (selected) `data.drop(columns=['Unnamed: 32'], axis = 1, inplace=True)`
- `data.drop(columns=['Unnamed: 32'], axis = 0, inplace=True)`
- `data.drop(columns=['Unnamed: 32'], axis = 1, inplace=False)`
- `data.drop(columns=['id','diagnosis'], axis = 1, inplace=True)`

Correct
Correct!

2. What Seaborn function shows the counts of observations in each categorical bin using bars? — 1 / 1 point

- (selected) `sns.countplot()`
- `sns.distplot()`
- `sns.catplot()`

Correct
Correct!

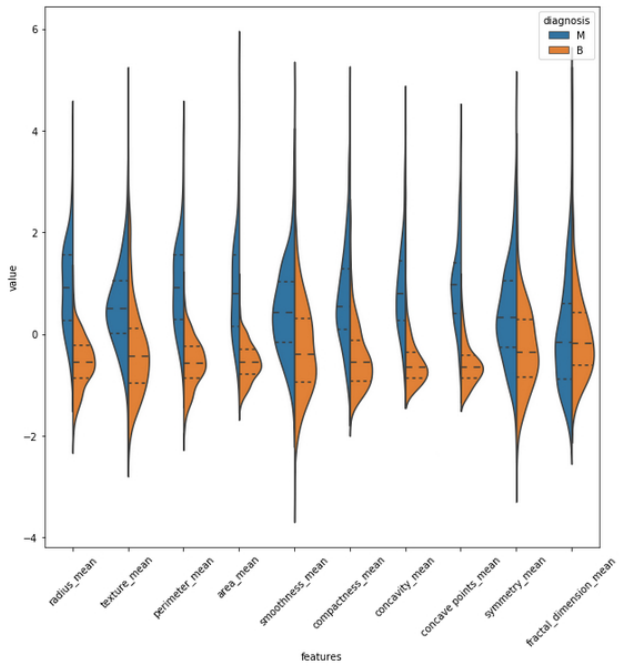
3. For a pandas dataframe **df**, the **df.describe()** method returns a dataframe summarizing its descriptive statistics — 1 / 1 point

- False
- (selected) True

Correct
Correct!

4. The following code was used to create the violinplot below. What paramter determines which column in the data frame should be used for colour encoding? — 1 / 1 point

```
sns.violinplot(x="features", y="value", hue="diagnosis", data=data, split=True,
  inner="quart")
```



- x and y
- data
- inner
- hue

Correct
Correct!

5. For a dataframe **df**, how would you view a color-encoded grid of all pair-wise correlations? **1 / 1 point**

-
```
df.corr(annot=True)
```
-
```
sns.heatmap(df.corr(annot=True))
```

Correct
Correct! This option plots the rectangular correlation data as a color-encoded matrix.

6. In machine learning, it is considered best practice to perform exploratory data analysis (EDA) after feature selection and feature engineering. **1 / 1 point**

- False
- True

Correct
Correct!