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Exam

Question 1

1/1 point (graded)

What does the following command do:

```
df.dropna(subset=["price"], axis=0)
```

- ☒ Drop the "not a number" from the column price ✓
- ☐ Drop the row price
- ☐ Rename the data frame price

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✓ Correct (1/1 point)

Question 2

1/1 point (graded)

How would you provide many of the summery statistics for all the columns in the dataframe "df":

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☐ type(df)

☐ df.shape

Submit

✓ Correct (1/1 point)

Question 3

1/1 point (graded)

How would you find the shape of the dataframe df

☐ df.describe()

☐ df.head()

☐ type(df)

☒ df.shape ✓

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✓ Correct (1/1 point)

Question 4

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- ☐ change the name of the column to "A.csv"
- ☐ load the data from a csv file called "A" into a dataframe
- ☒ Save the dataframe df to a csv file called "A.csv" ✓

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✓ Correct (1/1 point)

Question 5

1/1 point (graded)

What task does the following line of code perform:

```
df['peak-rpm'].replace(np.nan, 5, inplace=True)
```

- ☒ replace the not a number values with 5 in the column 'peak-rpm' ✓
- ☐ rename the column 'peak-rpm' to 5
- ☐ add 5 to the data frame

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✓ Correct (1/1 point)

Question 6

1/1 point (graded)

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☒ replace the not a number values with 5 in the column 'peak-rpm' ✓

☐ rename the column 'peak-rpm' to 5

☐ add 5 to the data frame

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✓ Correct (1/1 point)

Question 7

1/1 point (graded)

How do you "one hot encode" the column 'fuel-type' in the dataframe df

☒ `pd.get_dummies(df["fuel-type"])` ✓

☐ `df.mean(["fuel-type"])`

☐ `df[df["fuel-type"]==1]=1`

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✓ Correct (1/1 point)

Question 8

1/1 point (graded)

What does the vertical axis in a scatter plot represent

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Question 9

1/1 point (graded)

What does the horizontal axis in a scatter plot represent

☒ independent variable ✓

☐ dependent variable

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✓ Correct (1/1 point)

Question 10

1/1 point (graded)

If we have 10 columns and 100 samples how large is the output of `df.corr()`

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☐ 100x100

☐ 100x100

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✓ Correct (1/1 point)

Question 11

1/1 point (graded)

what is the largest possible element resulting in the following operation "df.corr()"

☐ 100

☐ 1000

☒ 1 ✓

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Question 12

1/1 point (graded)

if the Pearson Correlation of two variables is zero:

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Question 13

1/1 point (graded)

if the p value of the Pearson Correlation is 1

☐ the variables are correlated

☐ the variables are not correlated

☒ none of the above ✓

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Question 14

1/1 point (graded)

What does the following line of code do: `lm = LinearRegression()`

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☐ predict a value



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✓ Correct (1/1 point)

Question 15

1/1 point (graded)

If the predicted function is:

$$\hat{Y} = a + b_1 X_1 + b_2 X_2 + b_3 X_3 + b_4 X_4$$

The method is

☐ Polynomial Regression

☒ Multiple Linear Regression ✓

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Question 16

1/1 point (graded)

What steps do the following lines of code perform:

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```
pipe.fit(Z,y)
```

```
ypipe=pipe.predict(Z)
```

- ☐ Standardize the data, then perform a polynomial transform on the features Z
- ☐ find the correlation between Z and y
- ☒ Standardize the data, then perform a prediction using a linear regression model using the features Z and targets y ✓

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✓ Correct (1/1 point)

Question 17

1/1 point (graded)

What is the maximum value of R^2 that can be obtained

☐ 10

☒ 1 ✓

☐ 0

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We create a polynomial feature `PolynomialFeatures(degree=2)`, what is the order of the polynomial

☐ 0

☐ 1

☒ 2 ✓

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✓ Correct (1/1 point)

Question 19

1/1 point (graded)

You have a linear model the average R^2 value on your training data is 0.5, you perform a 100th order polynomial transform on your data then use these values to train another model, your average R^2 is 0.99 which comment is correct

☐ 100-th order polynomial will work better on unseen data

☐ You should always use the simplest model

☒ the results on your training data is not the best indicator of how your model performs, you should use your test data to get a better idea ✓

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You train a ridge regression model, you get a R^2 of 1 on your validation data and you get a R^2 of 0 on your training data, what should you do:

- ☒ Nothing your model performs flawlessly on your test data ✓
- ☐ your model is under fitting perform a polynomial transform
- ☐ your model is overfitting, increase the parameter alpha

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✓ Correct (1/1 point)

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