Intro to Data Science @ AFC | Assignment 5

Deadline: Sunday 20th November 2022 midnight EAT / 11pm SAST / 10pm WAT

Instructions

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Draft saved

* Required

Email *

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Part 1

This section corresponds to the Simple Linear Regression notebook.

How many rows are in the data? * 1 point

Enter the number directly, with no spaces or other text. Otherwise, your answer will be marked incorrect. For example, if there are 100 rows in the data, just enter ***100***

572

How many columns are in the data? * 1 point

Enter the number directly, with no spaces or other text. Otherwise, your answer will be marked incorrect. For example, if there are 100 columns in the data, just enter ***100***

5

How many rows contain missing values? * 1 point

Enter the number directly, with no spaces or other text. Otherwise, your answer will be marked incorrect. For example, if the answer is 100, just enter ***100***

0

Which code allows you to check how many rows contain missing values? * 1 point

- ○ data.isna().sum().any(axis=1)
- ◉ data.isna().any(axis=1).sum()
- ○ data.sum().isna().any(axis=1)

Which code allows you to drop the rows that contain missing values. * 1 point

- ○ data = data.dropna(axis=1)
- ○ data.dropna(axis=0)
- ○ data = data.dropna(axis=0)

data = data.dropna(axis=0)

- [x] data.dropna(axis=1)

Which function in the seaborn library allows you to create a plot of pairwise relationships in the data? * 1 point

- [ ] .regplot()
- [ ] .histplot()
- [x] .pairplot()
- [ ] .distplot()
- [ ] .countplot()

Is the assumption of linearity met? * 1 point

- [x] Yes
- [ ] No

What is the y-intercept that the model determined would generate the line of best fit? * 1 point

Enter this as a decimal with four decimal places, do not round or truncate, directly copy and paste from your code into the answer box.

Your answer

What is the slope that the model determined would generate the line of best fit? * 1 point

Enter this as a decimal with four decimal places, do not round or truncate, directly copy and paste from your code into the answer box.

Your answer

Are the assumptions of independent observation and homoskedasticity met? * 0 points

- ◯ Yes
- ◯ No

Part 2

This section corresponds to the Multiple Linear Regression notebook.

Which function in the pandas library can be used to rename columns in a dataframe? * 1 point

- ◯ .columns()
- ◯ .DataFrame()
- ◉ .rename()

Is the linearity assumption met? * 1 point

- ◉ Yes
- ◯ No

Is the independence assumption violated? * 1 point

- ○ Yes
- ◉ No

Is the normality assumption met? * 1 point

- ◉ Yes
- ○ No

Is the homoscedasticity assumption met? * 1 point

- ◉ Yes
- ○ No

Is the no multicollinearity assumption met? * 1 point

- ◉ Yes
- ○ No

What are the model coefficients? * 1 point

Write a sentence to describe the model coefficients.

Your answer

A copy of your responses will be emailed to the address you provided.

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