Bookmarks

Week 1 - Big Data and Data Science

Lecture 1: Big Data and Data Science
Quizzes

Setting up the Course Software Environment
Setup

Lab 1: Power Plant Machine Learning Pipeline
Lab due Sep 13, 2016 at 04:30 IST

Lab 1 Quiz Questions
Quizzes

Bookmark

Complete Lab 1 before you answer the following quiz questions.

Exercise 4(b)

(1/1 point)
What correlation between Power(PE) as a function of ExhaustVacuum (V) do you observe?

- There is little to no correlation between PE and V
- There is a strong correlation between PE and V
- There is some correlation between PE and V, but it is not as strong as the correlation between Power (PE) as a function of Temperature (AT) ✔

EXPLANATION

The linear correlation between PE and V is not as strong as the correlation between Power (PE) as a function of Temperature (AT), but there is some semblance of a pattern.

Exercise 4(c)

(1/1 point)
What correlation between Power(PE) as a function of Pressure (AP) do you observe?

- (•) There is little to no correlation between PE and AP ✔
- ( ) There is a strong correlation between PE and AP
- ( ) There is some correlation between PE and AP, but it is not as strong as the correlation between Power (PE) as a function of Temperature (AT)

EXPLANATION

There is little to no linear correlation between PE and AP.

Exercise 4(d)

(1/1 point)
What correlation between Power(PE) as a function of Humidity (RH) do you observe?

- (•) There is little to no correlation between PE and RH ✔

- [ ] There is a strong correlation between PE and RH

- [ ] There is some correlation between PE and RH, but it is not as strong as the correlation between Power (PE) as a function of Temperature (AT)

EXPLANATION

There is little to no linear correlation between PE and RH.

Part 6 Exercise 6(e)

(1/1 point)

Based on the Linear Regression Equation in Exercise 6(d), which of the following statements are true? Make sure you check all that apply.

- [x] There is a strong negative linear correlation between Atmospheric Temperature (AT) and Power Output (PE) ✔

- [ ] There is a strong positive linear correlation between Atmospheric Temperature (AT) and Power Output (PE)

- [ ] There is little to no correlation between Atmospheric Temperature (AT) and Power Output (PE)

- [ ] There is some correlation between Atmospheric Temperature (AT) and Power Output (PE)
- [ ] There are strong linear correlations between the other variables (Pressure, ExhaustVacuum, and Humidity) and Power Output (PE)
- [x] There is little to no correlation between the other variables and Power Output (PE) ✔

✔

Correct:
You are correct that there is a strong negative linear correlation between AT and PE because the equation has a large negative coefficient for AT.
You are correct that there is not a strong linear correlation between the other variables and PE because the coefficients are all small.


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