Programming Assignment

Download these Lecture Notebooks, in order to complete HW_9.ipynb you will need to read through at least the first two lecture notebooks.

Here are more lectures going over linear algebra concepts that are useful for understanding linear regression. These notebooks are not necessary for completing the homework, but they are a good review of the most fundamental ideas in linear algebra.

Download the assignment, unzip the file and work on HW_9.ipynb.

Exercise 1.2: do_regression

1 point possible (graded)

This problem adresses the first `do_regression` function used in exercise 1.2 to solve:

$$\mathbf{grades} = w_0 + w_1 \cdot \mathbf{study\_hours}$$

Which of the following is the correct output for:
`do_regression(data)[1]`

○ 0.82

○ 0.83

○ 0.84

○ 0.85

Submit   You have used 0 of 2 attempts

reverse_regression

1 point possible (graded)

Which of the following is the correct output for:

`reverse_regression(data)[1]`

○ **0.84**

○ **0.85**

○ **0.86**

○ **0.87**

Submit   You have used 0 of 2 attempts

Exercise 2.2: do_regression

1 point possible (graded)

This problem adresses the second `do_regression` function used in exercise 2.2 to solve:

$$y\text{-}x = w_0 + w_1 \cdot x$$

Which of the following is the correct output for:
`do_regression(HW)[1]`

○ -1.01

○ -0.82

○ 0.82

○ 0.85

Submit   You have used 0 of 2 attempts