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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 addresses the first `do_regression` function used in exercise 1.2 to solve:

$$\text{grades} = w_0 + w_1 \cdot \text{study_hours}$$

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

i Answers are displayed within the problem

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

i Answers are displayed within the problem

Exercise 2.2: do_regression

1 point possible (graded)

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

$$y - x = w_0 + w_1 \cdot x$$

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

i Answers are displayed within the problem