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CS4320-FitData

***Data Table***

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| --- | --- |
| **Intercept Value** | -428.10272532020554 |

|  |  |
| --- | --- |
| **Mean Square Error Value** | 982.5444070437417 |
| **Root Mean Square Error Value** | 31.345564391852026 |

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| --- | --- | --- | --- | --- |
| Features | Coefficients | Predicted correlation/ Assignment 1 | Charts | Prediction vs fit data |
| **X1** | -12.8858388 | Lightly (Negative) |  | It was negative as predicted, but coefficient > 1. |
| **X2** | -32.5502172 | Lightly (Uncorrelated) |  | I predicted as uncorrelated  Given coefficnet is much less than 0. |
| **X3** | -307.46783746 | Heavily  (Negative) |  | It was negative as predicted, yet the coefficent is much negative |
| **X4** | 0.46529172 | Lightly  (Negative) |  | False prediction as the cofficent is postive.  Since the cofficent is 0.46 then it is lightly correlated |
| **X5** | 0.94213844 | Lightly  (Uncorrelated) |  | I perdicted as uncorrlated, it is heavily postive correlated. |
| **X6** | -59.65066334 | Lightly  (Negative) |  | It was negative as predicted, yet still the coefficent is great than abs(0<x<1) |
| **X7** | 111.60894169 | Lightly  (Positive) |  | As predicted it was postive. |

Table Key definitions\*

* Heavily correlated: correlation coefficient range (0.5 < = abs(coefficient) <= 1.00)
* Lightly correlated: correlation coefficient range (0 < abs(coefficient) < 0.5)
* Uncorrelated: the correlations coefficient is zero or linear (zero slope)
* Positively correlated: correlation coefficient is positive (coefficient > 0)
* Negatively correlated: the correlation coefficient is negative (coefficient < 0)

Coefficient is m in the linear equation of

***My thoughts***

Some of the prediction to whether it was positive or negative get along with the fit data, but my main concern is that some coefficient are greater than 1 or much less than 0.