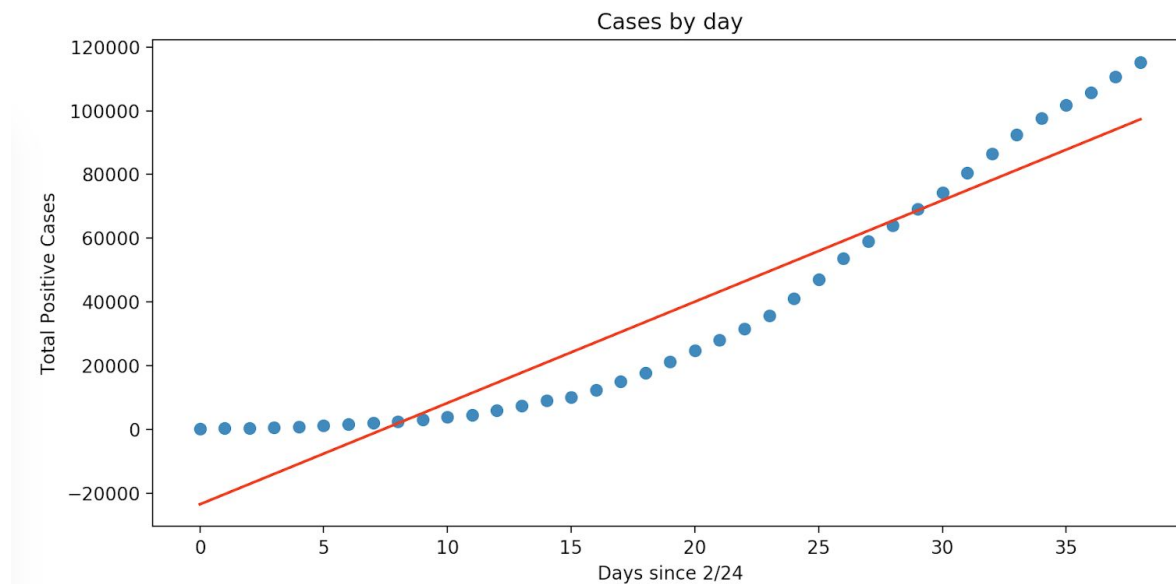Thelford Williams

Task1:
Graph of new Linear Regression:

Important statistics (e.g. R^2, p-value):

```
[:)] % python3 reg.py
slope: 3179.288664
intercept: -23505.074359
R-squared: 0.894557
P-value: 0.000000
Std Error 179.445710
```

Results, Interpretation, and Discussion
Task 2:
Research question
Hypothesis: COVID-19 cases are increasing rapidly over the past several days.
Null Hypothesis: COVID-19 cases are not increasing over the time interval.
Data source and description of the data you have found:
Data source Kaggle COVID-19 spread in Italy since February 24th
The data is a large csv of dates and cases in each region of Italy.
Methods and results with accompanying graphs

Make sure to discuss the credibility of your results

The researcher isn't from Italy but works as a data scientist at H20.ai so he likely got the information second-hand from hospitals in Italy. The data is credible.

Task3:

A few sentences describing why you decided to take this course/what you were hoping to get from it: I am hoping to learn data analytics and machine learning. How long it took you to complete this assignment: It took about 45 minutes, mostly time to find the data set and learn how to use pandas and matplotlib.