

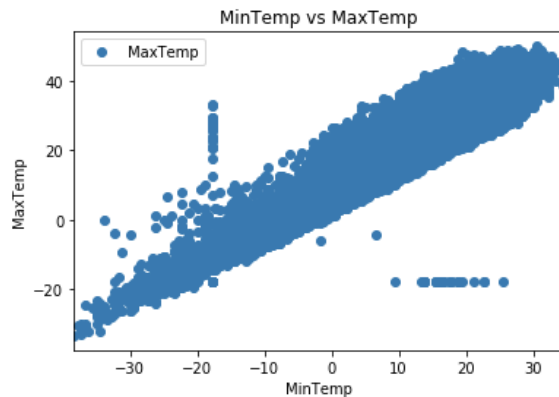
## Machine Learning - Ex – Single Linear Regression

Ex3.csv file contain data about weather measurements.

### Ex1

Create a scatter plot for all the data : MaxTemp (y axis) for MinTemp (x axis)

As follows :



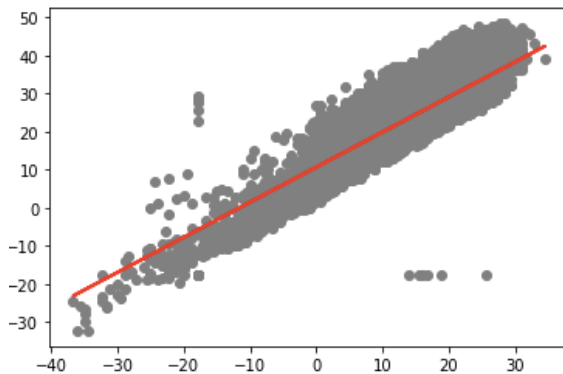
### Ex2

After training the model, find the top 10 predicted values for according to top 10 test (actual) values.

### Ex3

Create 2 plots (on the same figure)

- A Scatter of the tested MaxTemp for the tested MinTemp (in Gray)
- A Line for the predicted MaxTemp for the tested MinTemp (In Red)



### Ex4

Find the Intercept and the coefficient (a & b in  $Y=aX+b$ ) in the predicted line

Find the coefficient of determination ( $R^2$ )

### Ex5

Predict the MaxTemp for a MinTemp of 23.6