

# Linear Regression - e-commerce

# Problem Statement

You just got some contract work with an Ecommerce company based in New York City that sells clothing online but they also have in-store style and clothing advice sessions. Customers come in to the store, have sessions/meetings with a personal stylist, then they can go home and order either on a mobile app or website for the clothes they want.

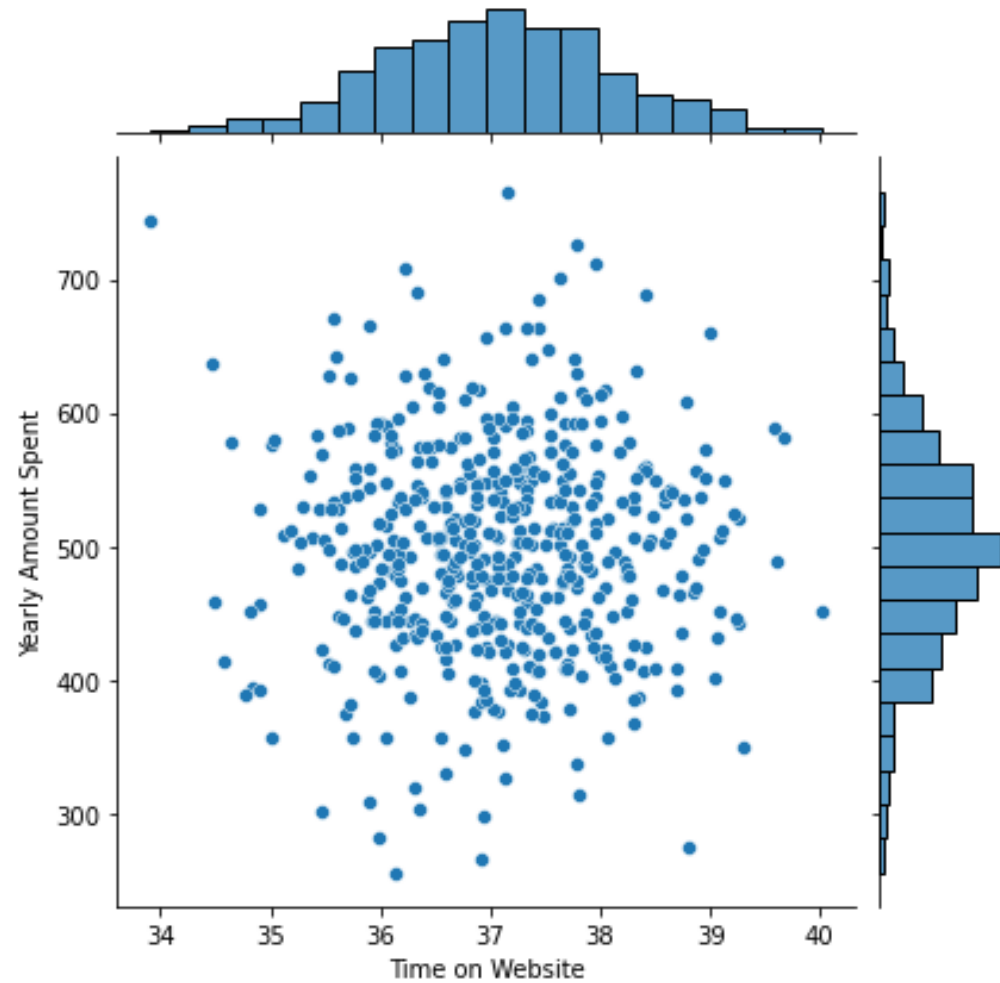
The company is trying to decide whether to focus their efforts on their mobile app experience or their website. They've hired you on contract to help them figure it out!

# Pre-processing

- The dataset contains the 8 columns and 500 rows.
- The several columns are not important for the prediction so they are removed.

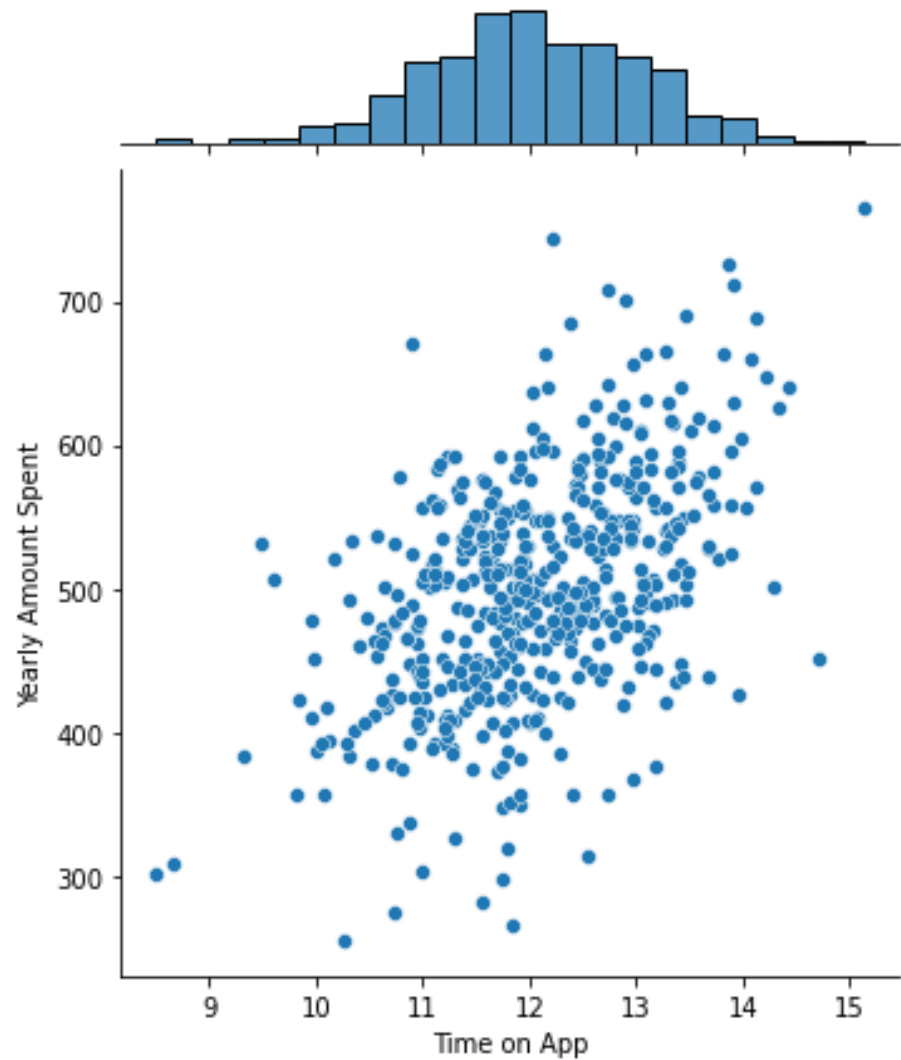
# Pre-processing

It shows the relationship between the Time on website and Yearly Amount Spent



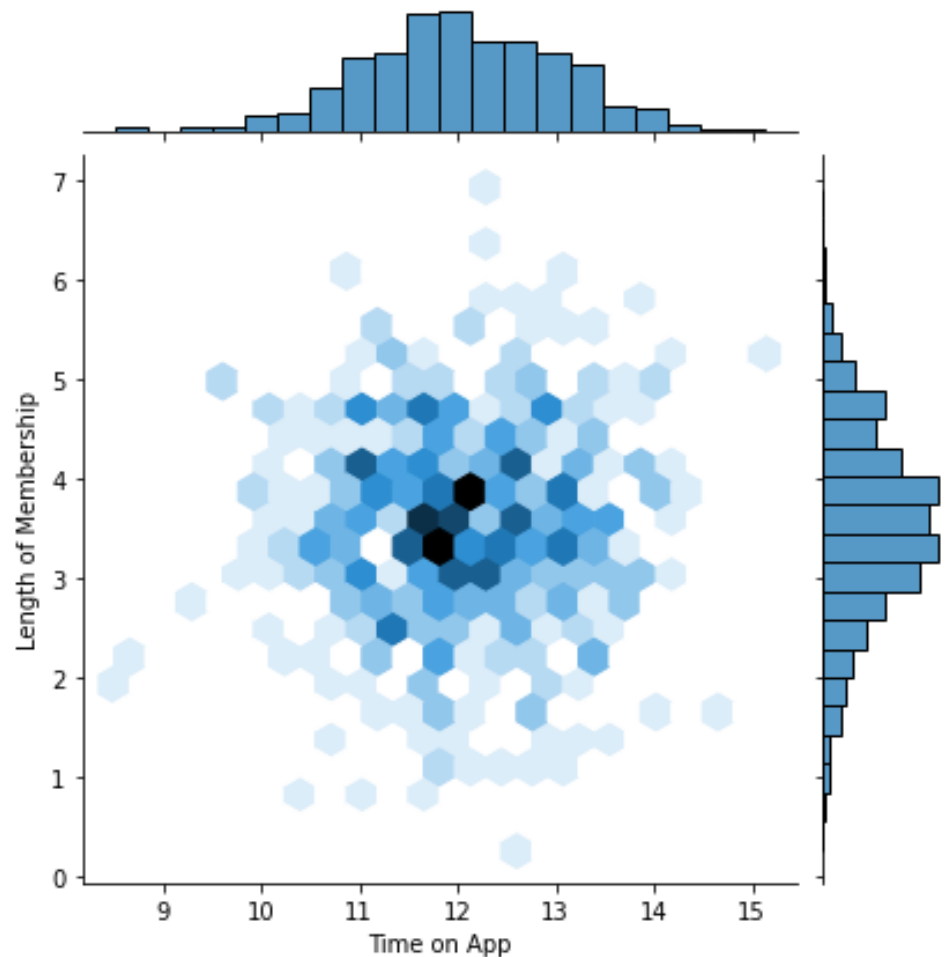
# Pre-processing

The relationship between the  
Yearly Amount Spent and  
Time on App



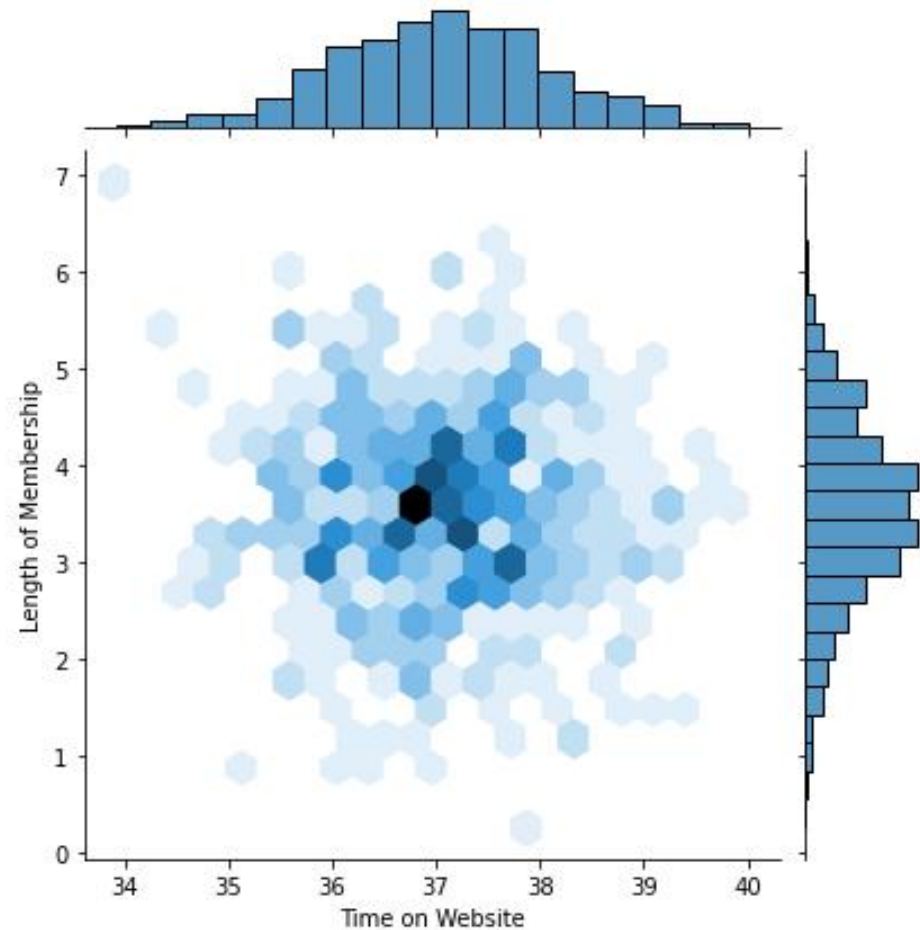
# Pre-processing

The relationship between Length of Membership and Time on App



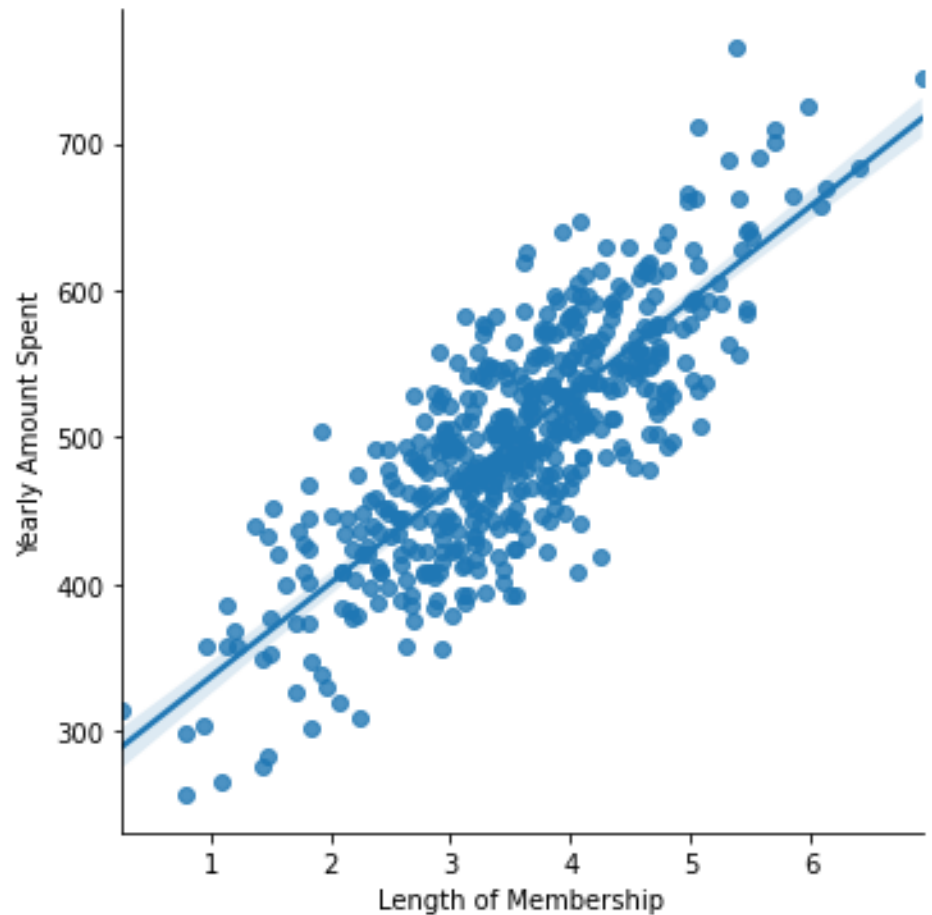
# Pre-processing

The relationship between the Time on website and Length of Membership



# Pre-processing

The relationship between Length of Membership and Yearly Amount spent





# Pre-processing

It's the cor-relationship  
between all the features.



# Result

The resultant graph of Predicted values and Actual values and accuracy of 98.12

