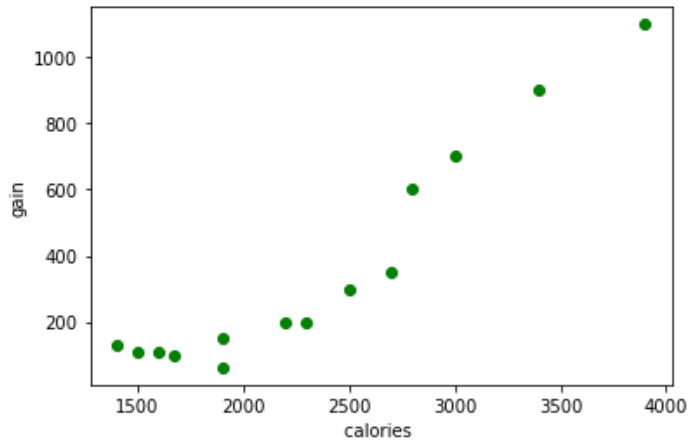
1) Calories_consumed-> predict weight gained using calories consumed

Scatter plot:



SLR ~ R squared=0.897

Log transformation ~ R squared=0.808

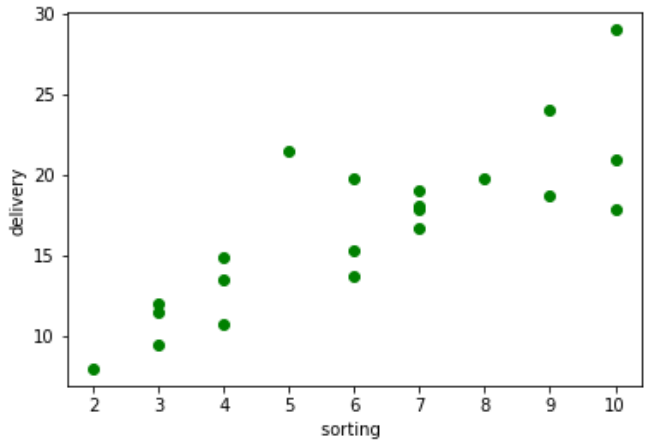
Exponential transformation ~ R squared=0.878

Polynomial transformation ~ R squared=0.878

Conclusion: Best model for this dataset is Simple Linear Regression

2) Delivery_time -> Predict delivery time using sorting time

Scatter plot:



SLR ~ R squared=0.682

Log transformation ~ R squared=0.695

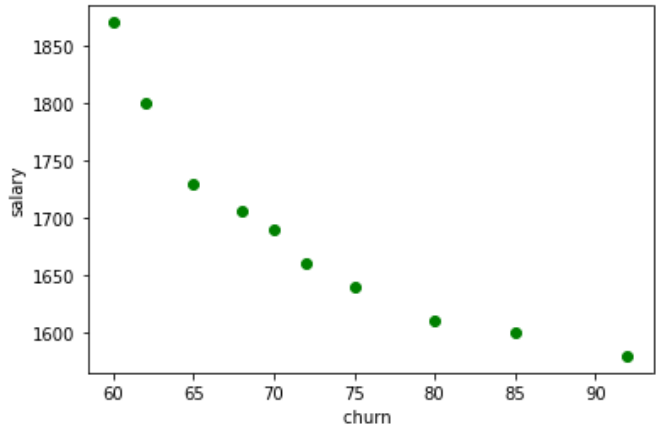
Exponential transformation ~ R squared=0.711

Polynomial transformation ~ R squared=0.765

Conclusion: Best model for this dataset is Polynomial transformation

3) Emp_data -> Build a prediction model for Churn-out rate

Scatter plot:



SLR ~ R squared=0.831

Log transformation ~ R squared=0.874

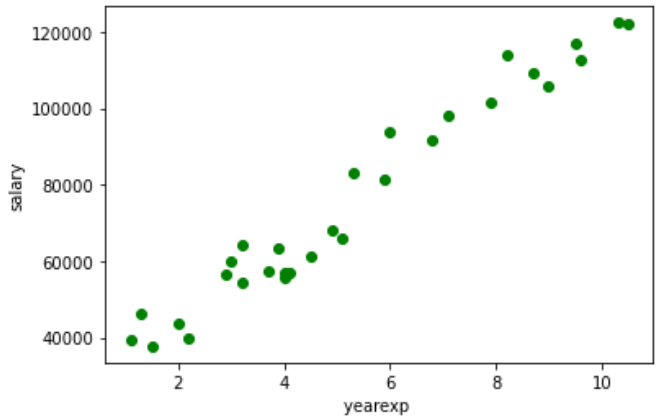
Exponential transformation ~ R squared=0.849

Polynomial transformation ~ R squared=0.979

Conclusion: Best model for this dataset is Polynomial transformation

4) Salary_hike -> Build a prediction model for Salary_hike

Scatter plot:



SLR ~ R squared=0.957

Log transformation ~ R squared=0.854

Exponential transformation ~ R squared=0.932

Polynomial transformation ~ R squared=0.949

Conclusion: Best model for this dataset is Simple Linear Regression