

Figure 1 Weather Dataset with error values and missing data

Figure 2 Weather Dataset without errors with missing data

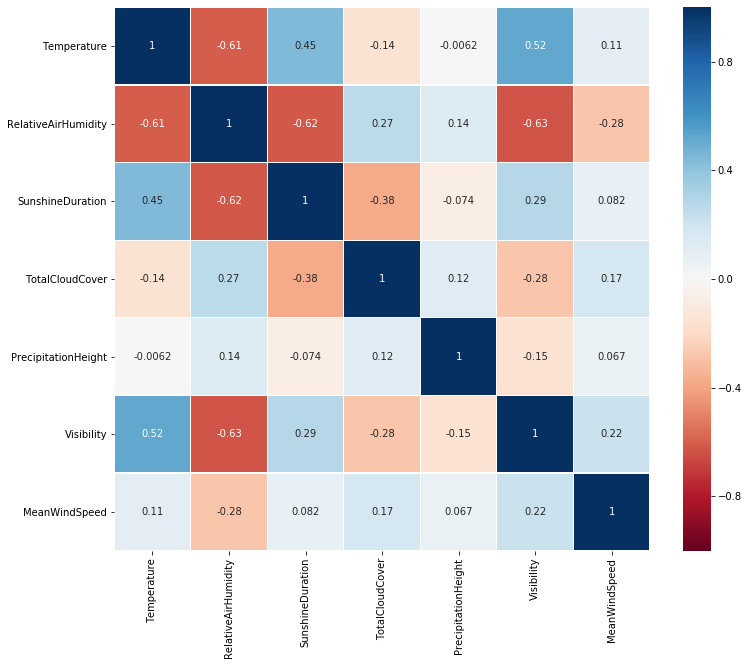


Figure 3Heatmap Person Correlation with weather features

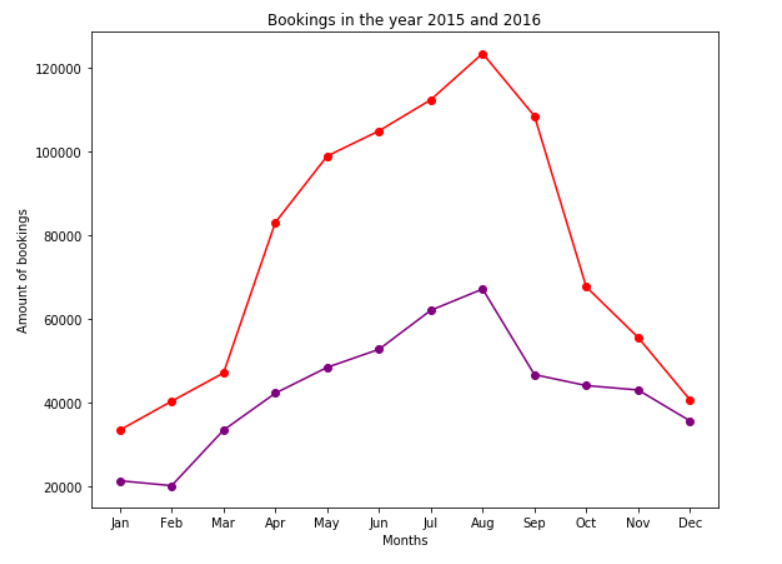


Figure 4 Booking amounts per month for both years

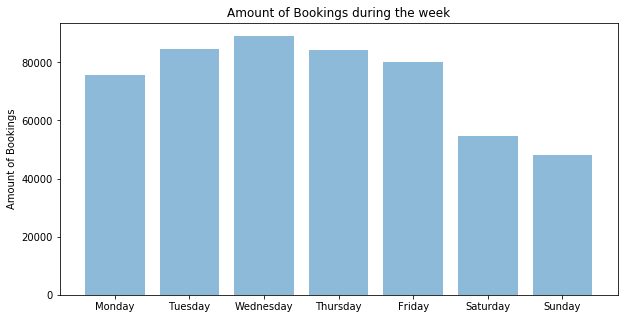


Figure 5 Booking Amounts per weekday

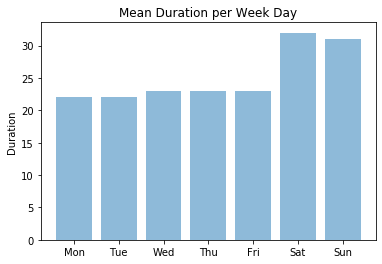


Figure 6 Mean trip duration for weekdays

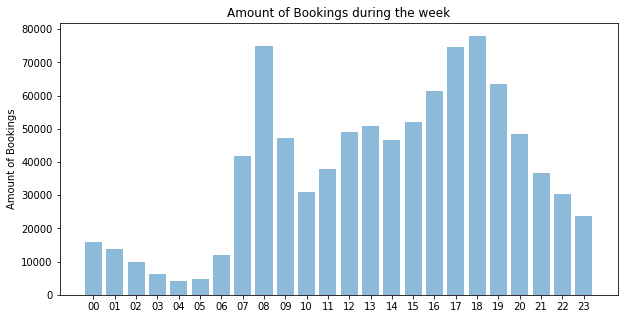


Figure 7 Booking amounts per hour (year 2016)

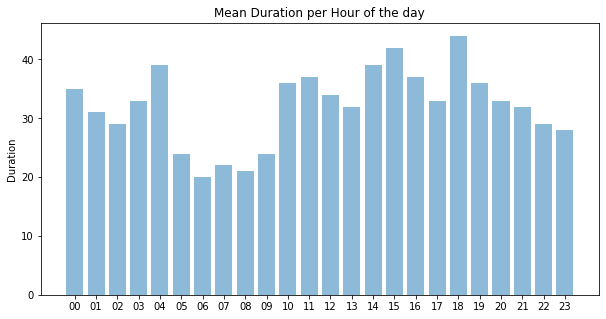


Figure 8Mean Booking duration per hour (Year 2015,2016)

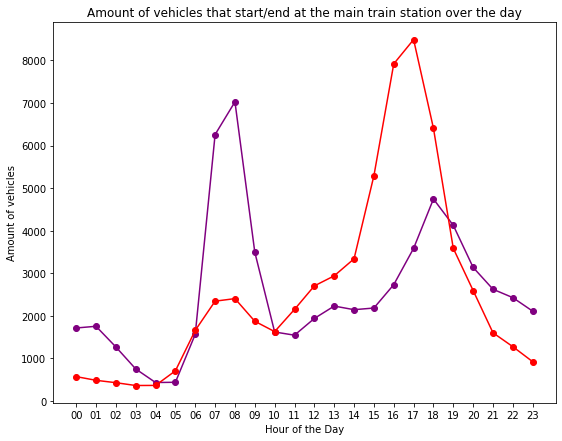


Figure 9 Amount of vehicels that start/end at the main train station over the day

CLUSTERS

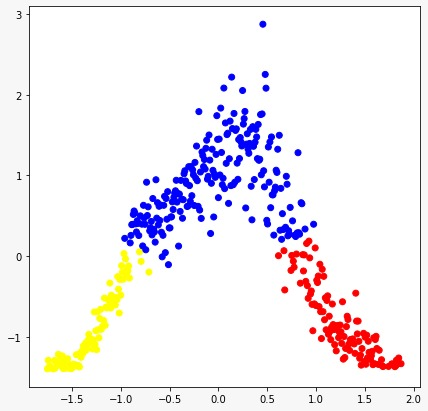


Figure 10 Trip type cluster (Amount of bookings – temperature)

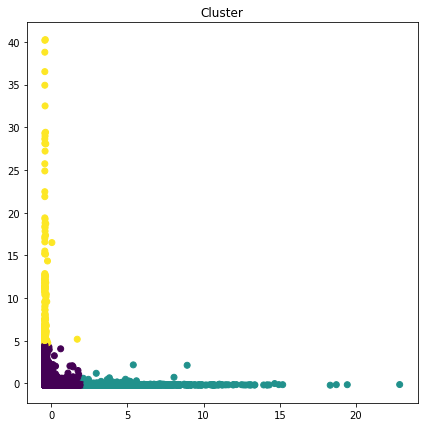


Figure 11Customer type cluster (amount of bookings – duration)

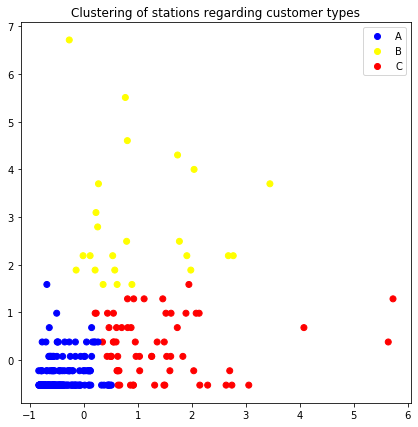


Figure 12 Station types regarding customer types cluster (Stations with regular customers -Stations with occasional customers)

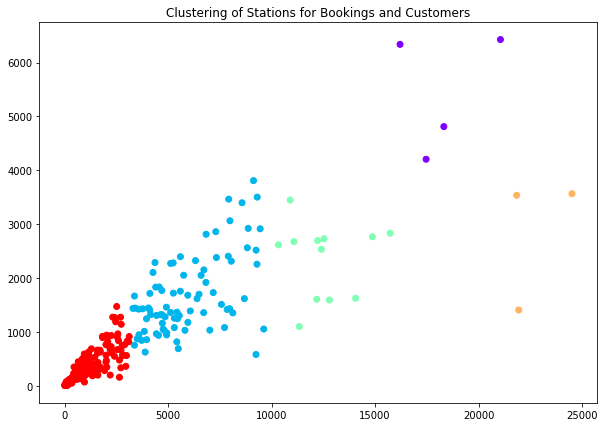


Figure 13 Clustering of stations for bookings and customers (Customers – Amount of bookings)

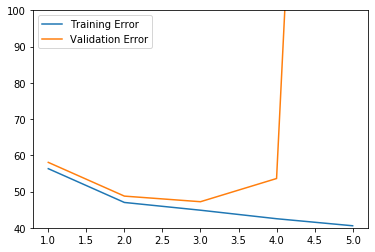


Figure 14 Training and Validation Error for Polynomial Model

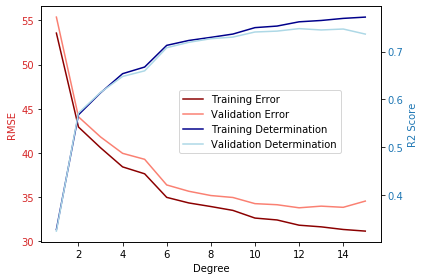


Figure 15 RMSE and R² for Polynomial Model with normalization

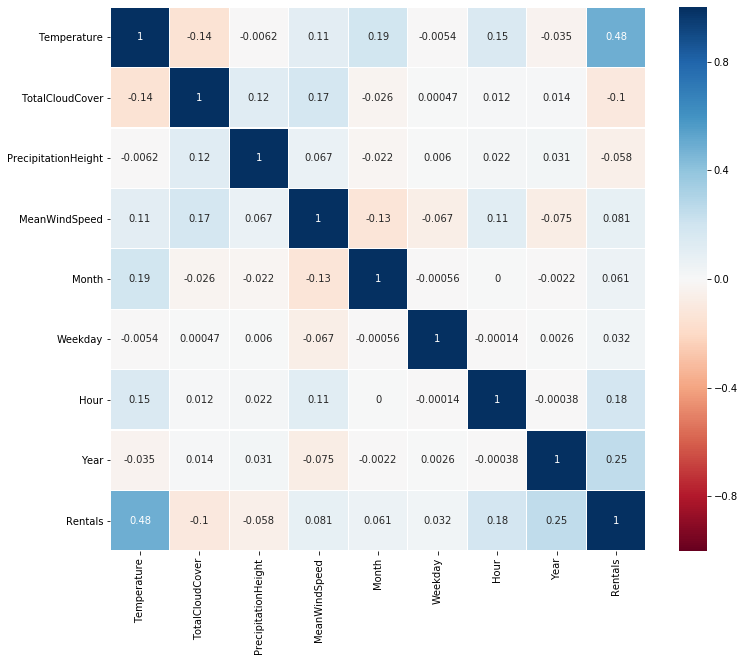


Figure 16Heat Map with Pearson Correlation for all features