Data Profiling Report

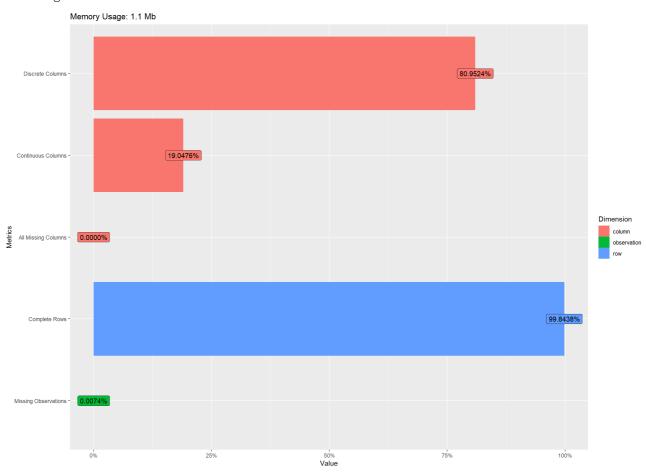
- Basic Statistics
 - Raw Counts
 - Percentages
- Data Structure
- Missing Data Profile
- Univariate Distribution
 - Histogram
 - Bar Chart (with frequency)
 - o QQ Plot
- Correlation Analysis
- Principal Component Analysis

Basic Statistics

Raw Counts

| Name | Value |
|----------------------|---------|
| Rows | 7,043 |
| Columns | 21 |
| Discrete columns | 17 |
| Continuous columns | 4 |
| All missing columns | 0 |
| Missing observations | 11 |
| Complete Rows | 7,032 |
| Total observations | 147,903 |
| Memory allocation | 1.1 Mb |

Percentages



root (Classes 'data.table' and 'data.frame': 7043 obs. of 21 variables:) \circ -

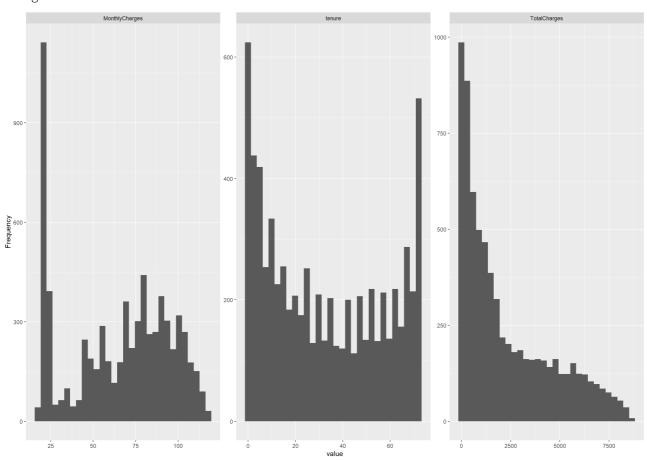
```
-customerID (Factor w/ 7043 levels "0002-ORFBO", "0003-MKNFE",)
-gender (Factor w/ 2 levels "Female", "Male")
-SeniorCitizen (int)
-SeniorCitizen (int)
-SeniorCitizen (int)
-Partner (Factor w/ 2 levels "No", "Yes")
-Dependents (Factor w/ 2 levels "No", "Yes")
-Dependents (Factor w/ 2 levels "No", "Yes")
-MultipleLines (Factor w/ 3 levels "No", "No phone service",)
-MultipleLines (Factor w/ 3 levels "No", "No internet service",)
-OnlineSecurity (Factor w/ 3 levels "No", "No internet service",)
-DeviceProtection (Factor w/ 3 levels "No", "No internet service",)
-DeviceProtection (Factor w/ 3 levels "No", "No internet service",)
-StreamingTv (Factor w/ 3 levels "No", "No internet service",)
-StreamingMovies (Factor w/ 3 levels "No", "No internet service",)
-Contract (Factor w/ 3 levels "No", "No internet service",)
-Contract (Factor w/ 3 levels "No", "No internet service",)
-PaperlessBilling (Factor w/ 2 levels "No", "Yes")
-PaymentMethod (Factor w/ 4 levels "Bank transfer (automatic)",)
-MonthlyCharges (num)
-TotalCharges (num)
-Churn (Factor w/ 2 levels "No", "Yes")
```

Missing Data Profile



Univariate Distribution

Histogram



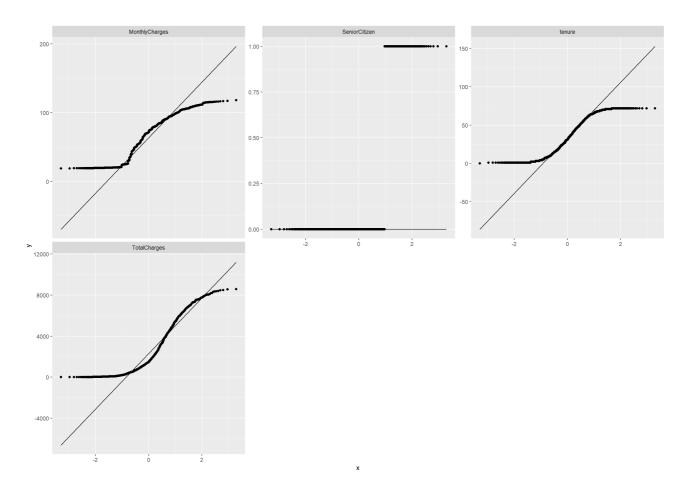
Bar Chart (with frequency)

1 columns ignored with more than 50 categories.
customerID: 7043 categories



QQ Plot

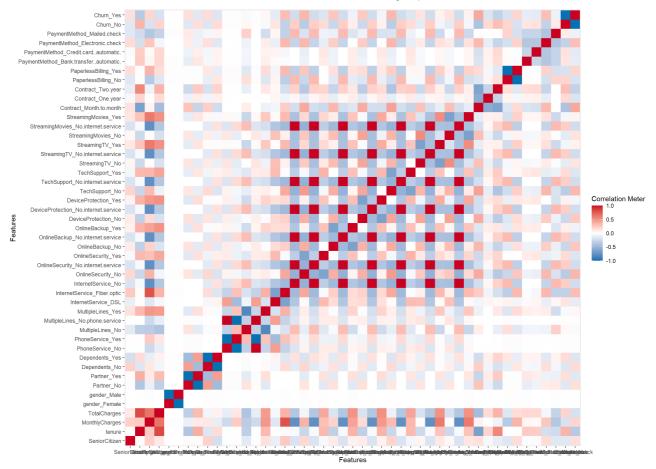
Warning: Removed 1 rows containing non-finite values (`stat_qq()`).



Correlation Analysis

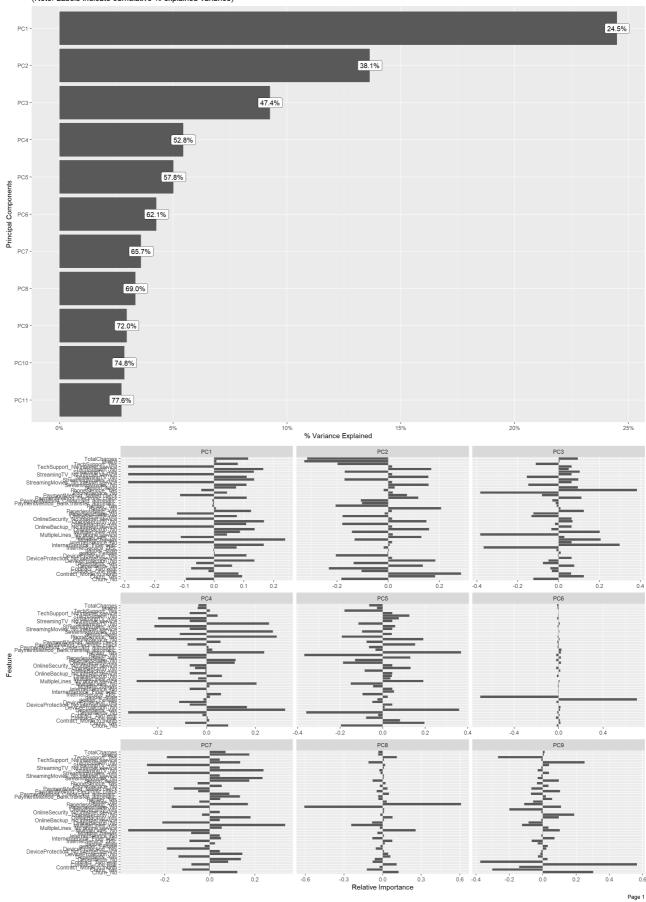
 $\mbox{\tt \#\#}\ 1$ features with more than 20 categories ignored!

customerID: 7032 categories



Principal Component Analysis

1 features with more than 50 categories ignored! ## customerID: 7032 categories



Data Profiling Report

