## Correlation Matrix

SeniorCitizen -	- 0.8
Partner -0.02	
Dependents - <mark>0.21</mark> 0.45	
tenure - <mark>0.01</mark> 0.38 0.16	- 0.6
PhoneService -0.01 0.02-0.000.01	0.0
MultipleLines - 0.14 0.14 <mark>-0.03</mark> 0.33 0.28	
OnlineSecurity -0.040.14 0.08 0.33-0.09 0.10	
OnlineBackup - 0.07 0.14 <mark>0.02</mark> 0.36 <mark>-0.05</mark> 0.20 0.28	- 0.4
DeviceProtection -0.06 0.15 <mark>0.01</mark> 0.36- <mark>0.07</mark> 0.20 0.27 0.30	
TechSupport	
StreamingTV - 0.10 0.12 <mark>-0.02</mark> 0.28 <mark>-0.02</mark> 0.26 0.17 0.28 0.39 0.28	- 0.2
StreamingMovies - <mark>0.12 0.12<mark>-0.04</mark> 0.28<mark>-0.03</mark> 0.26 0.19 0.27 0.40 0.28 <mark>0.53</mark></mark>	
PaperlessBilling -0.16 <mark>-0.01-0.11</mark> 0.00 0.02 0.16 <mark>-0.00</mark> 0.13 0.10 0.04 0.22 0.21	
MonthlyCharges -0.22 0.10 <mark>-0.11</mark> 0.24 0.25 0.49 0.30 0.44 0.48 0.34 0.63 0.63 0.35	
TotalCharges -0.10 0.32 0.06 0.83 0.11 0.47 0.41 0.51 0.52 0.43 0.51 0.52 <mark>0.16</mark> 0.65	- 0.0
Churn -0.15- <mark>0.15-0.16-0.35</mark> 0.01 0.04 <mark>-0.17-</mark> 0.08-0.06-0.160.07 0.06 0.19 0.19 <mark>-0.20</mark>	
IsMale -0.00-0.000.01 0.01-0.01-0.01-0.02-0.01-0.00-0.01-0.01-	
Contract_Month-to-month -0.14-0.28-0.23-0.65-0.00-0.09-0.25-0.16-0.22-0.28-0.11-0.120.17 0.06-0.45 0.40-0.00	- <del>-</del> 0.2
Contract_One year -0.050.08 0.07 0.20-0.00-0.000.10 0.08 0.10 0.10 0.06 0.06-0.050.00 0.17-0.18 0.01-0.57	
Contract_Two year -0.120.25 0.20 0.56 0.01 0.11 0.19 0.11 0.16 0.24 0.07 0.07 -0.15-0.08 0.36-0.30-0.00-0.62-0.29	
PaymentMethod_Bank transfer (automatic) -0.020.11 0.05 0.24 0.01 0.07 0.09 0.09 0.08 0.10 0.04 0.05-0.020.04 0.18-0.12-0.02-0.18 0.06 0.15	- <b>-</b> 0.4
PaymentMethod_Credit card (automatic) $-0.020.080.060.23$ $-0.010.060.110.090.110.120.040.05$ $-0.010.030.18$ $-0.130.00$ $-0.200.070.17$ $-0.280.07$	- <del>-</del> 0.4
PaymentMethod_Electronic check -0.17-0.08-0.15-0.21 0.00 0.08-0.11-0.00-0.00-0.12 0.14 0.14 0.21 0.27-0.06 0.30 0.00 0.33-0.11-0.28-0.38-0.37	
PaymentMethod_Mailed check -0.15-0.090.06-0.23-0.01-0.23-0.08-0.17-0.19-0.08-0.25-0.25-0.20-0.37-0.29-0.090.01 0.00 0.00-0.01-0.29-0.28-0.39	
InternetService_DSL -0.11-0.000.05 0.01-0.45-0.200.32 0.16 0.14 0.31 0.01 0.02-0.06-0.16-0.05-0.12 0.01-0.060.05 0.03 0.02 0.05-0.11 0.05	0.6
InternetService_Fiber optic -0.25 0.00-0.170.02 0.29 0.37-0.030.17 0.18-0.02 0.33 0.32 0.33 0.79 0.36 0.31-0.010.24-0.08-0.21-0.02-0.050.33-0.30-0.64	
InternetService_No -0.180.00 0.14-0.030.17-0.21-0.33-0.38-0.38-0.34-0.41-0.42-0.32-0.76-0.37-0.230.00-0.220.04 0.22 0.00 0.00-0.280.32-0.38-0.46	
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