

MATH501 Modelling and Analytics for Data Science Coursework

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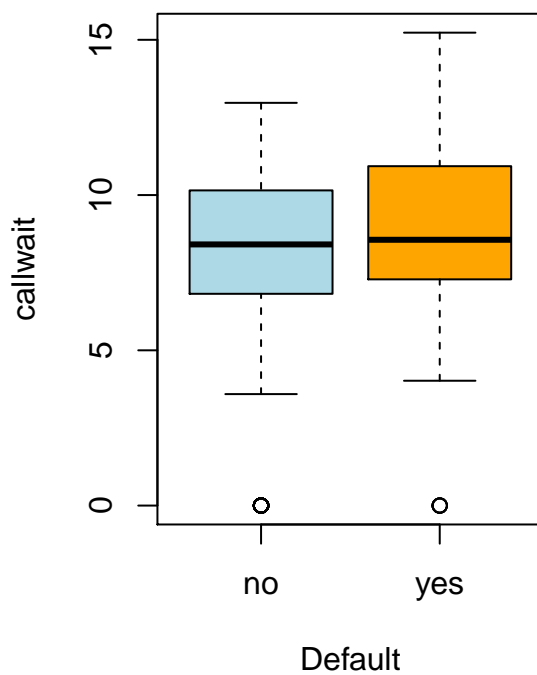
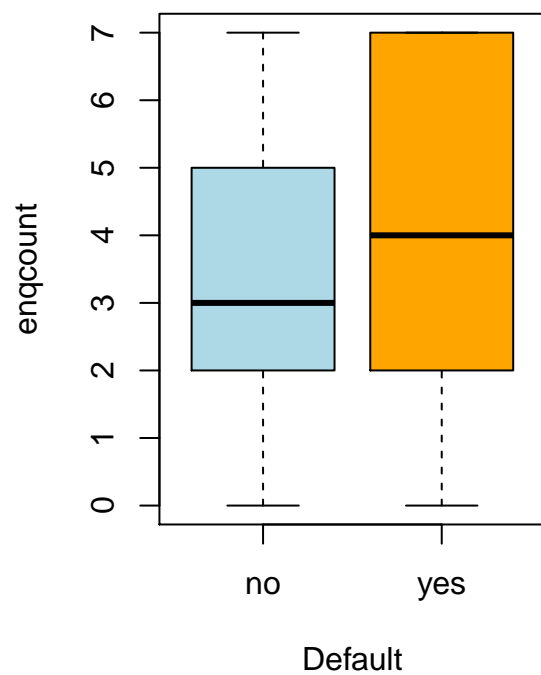
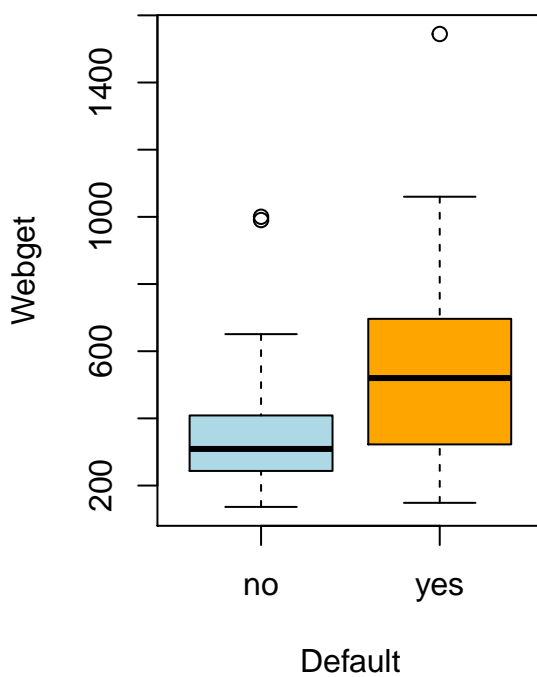
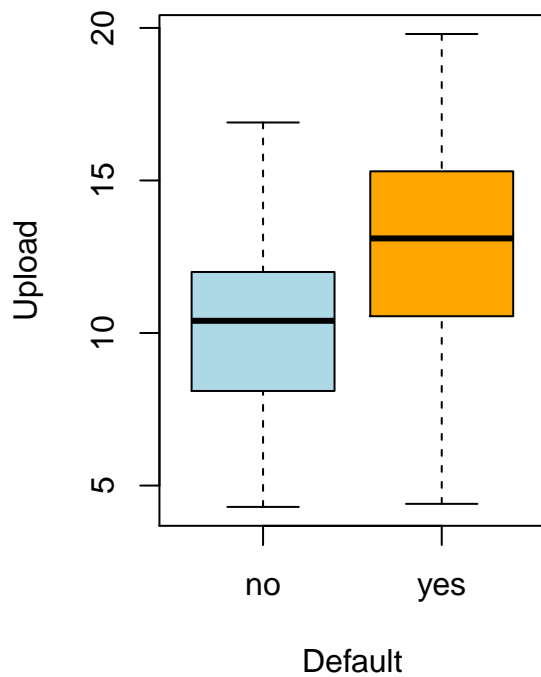
1 Machine Learning Task

1.1 Data exploration

1.1.1 Summary Statistics

```
##      upload      webget      enqcount      callwait
## Min.      : 4.30   Min.      : 136.4   Min.      :0.000   Min.      : 0.000
## 1st Qu.: 8.50    1st Qu.: 248.4   1st Qu.:2.000   1st Qu.: 6.900
## Median :10.80    Median : 326.6   Median :3.000   Median : 8.460
## Mean   :10.68    Mean   : 373.7   Mean   :3.386   Mean   : 8.296
## 3rd Qu.:12.60    3rd Qu.: 450.9   3rd Qu.:5.000   3rd Qu.:10.330
## Max.    :19.80    Max.    :1544.4   Max.    :7.000   Max.    :15.230
##      churn
## Length:500
## Class :character
## Mode  :character
##
##
##
```


1.1.2 Data visuals



```
## 'stat_bin()' using 'bins = 30'. Pick better value with 'binwidth'.
```

