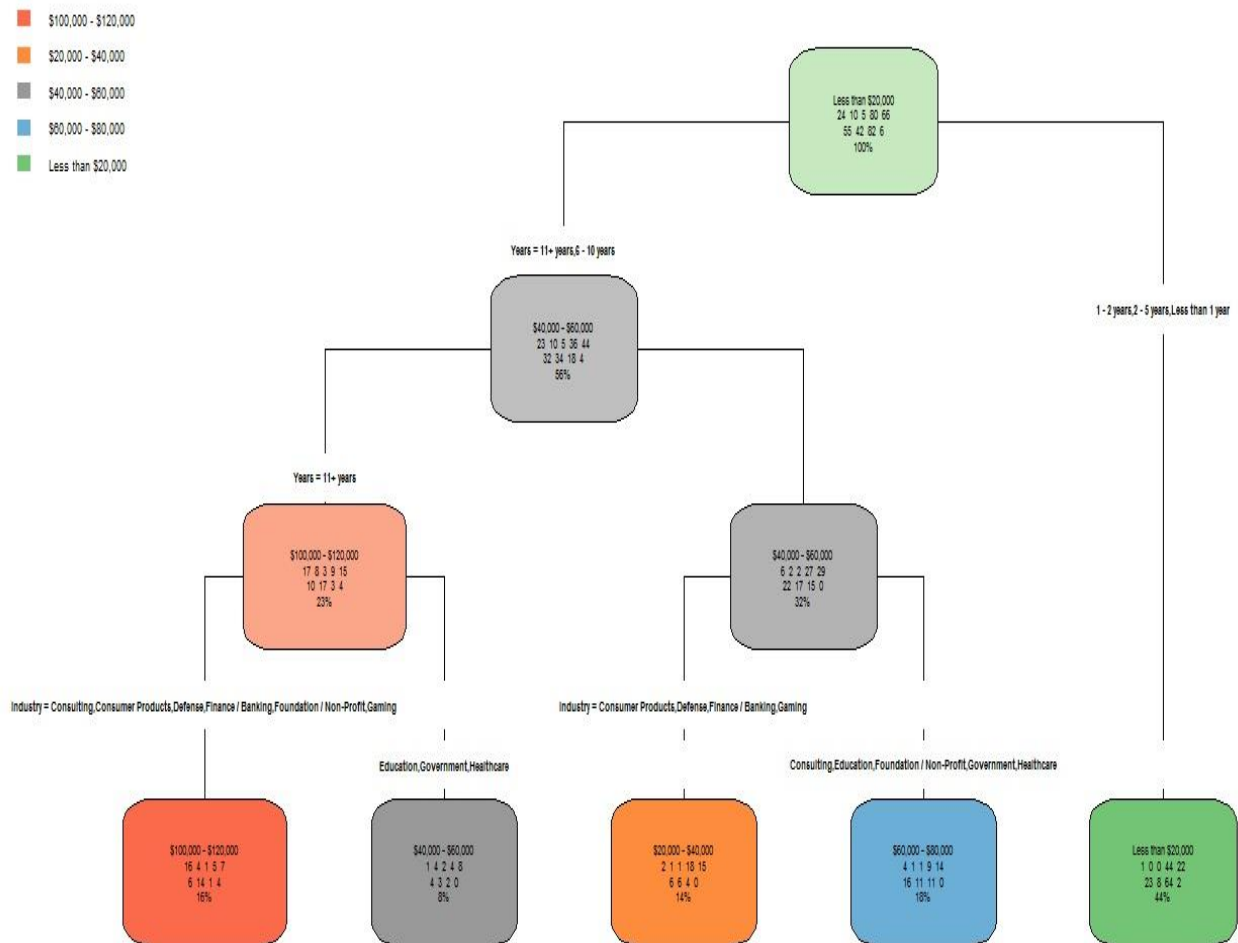


Decision Tree for Salary Estimation



Inferences derived from the above model are as follows

1. Years of experience acts as primary differentiator for classification.
2. For less than 5 years of experience, the model predicts salary lesser than 20,000 \$ irrespective of industry.
3. Finance, consulting, etc are more rewarding in salary than Education, Healthcare, and Government.

Confusion Matrix for decision tree

-

```
> rpart.table
      true
pred   $100,000 - $120,000 $120,000 - $140,000 $140,000 - $160,000 $20,000 - $40,000 $40,000 - $60,000 $60,000 - $80,000 $80,000 - $100,000
$100,000 - $120,000      1048              11                5                4                75                24                23                16
$120,000 - $140,000       0                0                0                0                0                0                0                0
$140,000 - $160,000       0                0                0                0                0                0                0                0
$20,000 - $40,000         0                0                0                0                0                0                0                0
$40,000 - $60,000         0                0                0                0                0                0                0                0
$60,000 - $80,000       121              167              94              54             238             275             257             196
$80,000 - $100,000        0                0                0                0                0                0                0                0
Less than $20,000        111              23              12               7             235             196             131             52
More than $160,000        0                0                0                0                0                0                0                0
Rather not say            0                0                0                0                0                0                0                0
Unemployed                0                0                0                0                0                0                0                0

      true
pred   Less than $20,000 More than $160,000 Rather not say Unemployed
$100,000 - $120,000      210                8              149             377
$120,000 - $140,000       0                0                0                0
$140,000 - $160,000       0                0                0                0
$20,000 - $40,000         0                0                0                0
$40,000 - $60,000         0                0                0                0
$60,000 - $80,000       160              85             226                8
$80,000 - $100,000        0                0                0                0
Less than $20,000       435                6             159             18
More than $160,000        0                0                0                0
Rather not say            0                0                0                0
Unemployed                0                0                0                0
> |
```

Confusion Matrix for SVM

```
> svm.table
      true
pred   $100,000 - $120,000 $120,000 - $140,000 $140,000 - $160,000 $20,000 - $40,000 $40,000 - $60,000 $60,000 - $80,000 $80,000 - $100,000
$100,000 - $120,000      1048              11                5                4                75                24                23                16
$120,000 - $140,000       17              34              22              19              21              26              36              38
$140,000 - $160,000        0                0                0                0                0                0                0                0
$20,000 - $40,000        41              29              20               5             108             103             70             41
$40,000 - $60,000        24              22              12               6             65              76              66              30
$60,000 - $80,000        17              24              13               0             53              57              54              40
$80,000 - $100,000       11              18              14               7             11              16              17              17
Less than $20,000       98              22               8               4            176             143             84             34
More than $160,000        0                0                0                0                0                0                0                0
Rather not say           22              40              17              20              38              50              61              48
Unemployed                2                1                0                0                1                0                0                0

      true
pred   Less than $20,000 More than $160,000 Rather not say Unemployed
$100,000 - $120,000      210                8              149             379
$120,000 - $140,000       10              30              30                0
$140,000 - $160,000        0                0                0                0
$20,000 - $40,000        76                2              83                0
$40,000 - $60,000        73                6              51                3
$60,000 - $80,000        16                9              32                1
$80,000 - $100,000         9                5              11                0
Less than $20,000       376                5             125             15
More than $160,000        0                0                0                0
Rather not say           34              34              53                5
Unemployed                1                0                0                0
> ,
```