

Summary Report for Decision Tree Model dt_model

Call:

```
rpart(formula = Credit.Application.Result ~ Account.Balance + Duration.of.Credit.Month + Payment.Status.of.Previous.Credit + Purpose + Credit.Amount + Value.Savings.Stocks + Length.of.current.employment + Instalment.per.cent + Most.valuable.available.asset + Age.years + Type.of.apartment + No.of.Credits.at.this.Bank, data = the.data, minsplit = 20, minbucket = 7, usesurrogate = 2, xval = 10, maxdepth = 20, cp = 1e-05)
```

Model Summary

Variables actually used in tree construction:

[1] Account.Balance Duration.of.Credit.Month Purpose

[4] Value.Savings.Stocks

Root node error: 97/350 = 0.27714

n= 350

Pruning Table

Level	CP	Num Splits	Rel Error	X Error	X Std Dev
1	0.068729	0	1.00000	1.00000	0.086326
2	0.041237	3	0.79381	0.94845	0.084898
3	0.025773	4	0.75258	0.88660	0.083032

Leaf Summary

node), split, n, loss, yval, (yprob)

* denotes terminal node

1) root 350 97 Creditworthy (0.7228571 0.2771429)

2) Account.Balance=Some Balance 166 20 Creditworthy (0.8795181 0.1204819) *

3) Account.Balance=No Account 184 77 Creditworthy (0.5815217 0.4184783)

6) Duration.of.Credit.Month< 13 74 18 Creditworthy (0.7567568 0.2432432) *

7) Duration.of.Credit.Month>=13 110 51 Non-Creditworthy (0.4636364 0.5363636)

14) Value.Savings.Stocks=< £100,£100-£1000 34 11 Creditworthy (0.6764706 0.3235294) *

15) Value.Savings.Stocks=None 76 28 Non-Creditworthy (0.3684211 0.6315789)

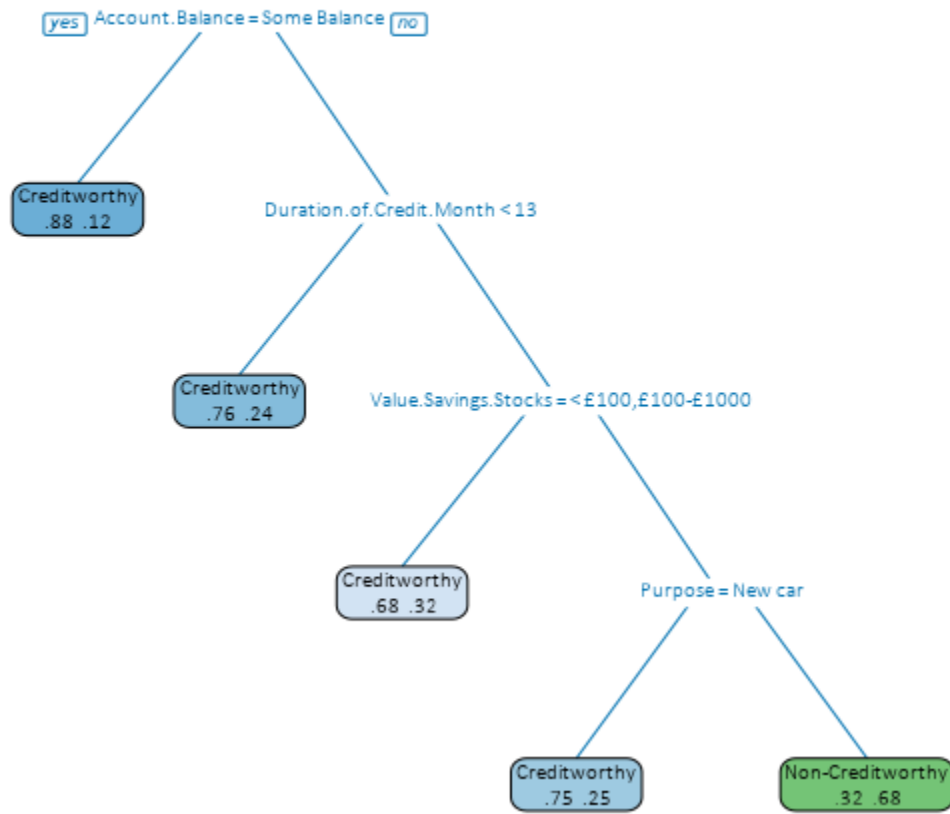
30) Purpose=New car 8 2 Creditworthy (0.7500000 0.2500000) *

31) Purpose=Home Related,Other,Used car 68 22 Non-Creditworthy (0.3235294 0.6764706) *

Plots

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Tree Plot



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