|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| isDemocrat | Attr1 | Attr2 | Attr3 | Attr4 | Attr5 | Attr6 | Attr7 | Attr8 | Attr9 | Attr10 | Attr11 | Attr12 | Attr13 | Attr14 | Attr15 | Attr16 |
| Rep NO | n | y | n | y | y | y | n | n | n | n | n | y | ? | ? | n | ? |
| Rep NO | n | y | n | y | y | y | n | n | n | y | n | y | y | ? | n | ? |
| DemYES | y | n | y | n | n | y | n | y | ? | y | y | y | ? | n | n | y |
| DemYES | y | ? | y | n | n | n | y | y | y | n | n | n | y | n | y | y |
| Rep NO | n | y | n | y | y | y | n | n | n | n | n | ? | y | y | n | n |
| DemYES | y | y | y | n | n | n | y | y | y | n | y | n | n | n | y | y |
| DemYES | y | y | y | n | n | ? | y | y | n | n | y | n | n | n | y | y |
| DemYES | y | y | y | n | n | n | y | y | y | n | n | n | ? | ? | y | y |
| DemYES | y | ? | y | n | n | n | y | y | y | n | n | ? | n | n | y | y |
| DemYES | y | y | y | n | n | n | y | y | y | n | n | n | n | n | y | y |

Нов член:

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| isDemocrat | Attr1 | Attr2 | Attr3 | Attr4 | Attr5 | Attr6 | Attr7 | Attr8 | Attr9 | Attr10 | Attr11 | Attr12 | Attr13 | Attr14 | Attr15 | Attr16 |
|  | n | n | n | y | n | y | n | y | y | ? | n | n | y | n | y | y |

For Democrats:

Var1 = P(isDemocrat) \* P(isDemocrat | Attr1 = n) \* P(isDemocrat | Attr2 = n) \* P(isDemocrat | Attr3 = n) \* P(isDemocrat | Attr4 = y) \* P(isDemocrat | Attr5 = n) \* P(isDemocrat | Attr6 = y) \* P(isDemocrat | Attr7 = n) \* P(isDemocrat | Attr8 = y) \* P(isDemocrat | Attr9 = y) \* ~~P(isDemocrat | Attr10 = ?)~~ \* P(isDemocrat | Attr11 = n) \* P(isDemocrat | Attr12 = n) \* P(isDemocrat | Attr13 = y) \* P(isDemocrat | Attr14 = n) \* P(isDemocrat | Attr15 = y) \* P(isDemocrat | Attr16 = y)

For Republicans:

Var2 = P(!isDemocrat) \* P(!isDemocrat | Attr1 = n) \* P(!isDemocrat | Attr2 = n) \* P(!isDemocrat | Attr3 = n) \* P(!isDemocrat | Attr4 = y) \* P(!isDemocrat | Attr5 = n) \* P(!isDemocrat | Attr6 = y) \* P(!isDemocrat | Attr7 = n) \* P(!isDemocrat | Attr8 = y) \* P(!isDemocrat | Attr9 = y) \* ~~P(!isDemocrat | Attr10 = ?)~~ \* P(!isDemocrat | Attr11 = n) \* P(!isDemocrat | Attr12 = n) \* P(!isDemocrat | Attr13 = y) \* P(!isDemocrat | Attr14 = n) \* P(!isDemocrat | Attr15 = y) \* P(!isDemocrat | Attr16 = y)

NULL фийчърите се игнорират и не се взимат в предвид при смятането на вероятността за таргет класовете.

Където е ? (Липсва стойност)

Evidence = Var1 + Var2; // total

If ( Var1 > Var2 ) {

Democrat;

Print Var1 / evidence = Var1 / (Var1 + Var2); // Колко процента съм сигурен че ще е демократ

} else {

Republican;

Print Var2 / evidence = Var2 / (Var1 + Var2); // Колко процента съм сигурен че ще е републиканец

}

Принтираме резултатите от 10те теста и средната точност (събираме стойностите и делим на броят).