Report

For continuous-valued attributes, I assume they are following the Gaussian distribution. By calculating means and variances of one attribute correspoinding to each target attribute values, we would obtain several Gaussian distributions representing the likelihood p(x=c|yes) and p(x=c|no).

For missing attribute values, I used Laplacian smooth to solve it. Basically it uses a small amount of probability to substitute 0 in order to get a non-zero probability, which assumes that every case appears at least once. What we need to do is just add 1 in the numerator of probability and k in the denominator, where k is the expected number of types of value in that attribute.

Test Result

```
1 Fold1 : 0.8325091378198237,
2 Fold2 : 0.8382068372393033,
3 Fold3 : 0.8353042356482477,
4 Fold4 : 0.8318641152440336,
5 Fold5 : 0.8340141904966674,
6 Overall : 0.8343797032896152
```