

Classification and Regression Trees

D is a set of attribute-value vectors

```
function CART(D) =  
if done(D) then D  
else let  
  e = {condEntropy({d[i],d[n] : d in D}  
    : i in [0:n]});  
  P = split(D,min_index(e));  
in TreeNode({CART(p) : p in P},i);
```

Other Tree Based Codes:

- proximity problems : nearest neighbors, metric trees
- Kernel density estimation
- Gaussian process regression
- n-point correlation