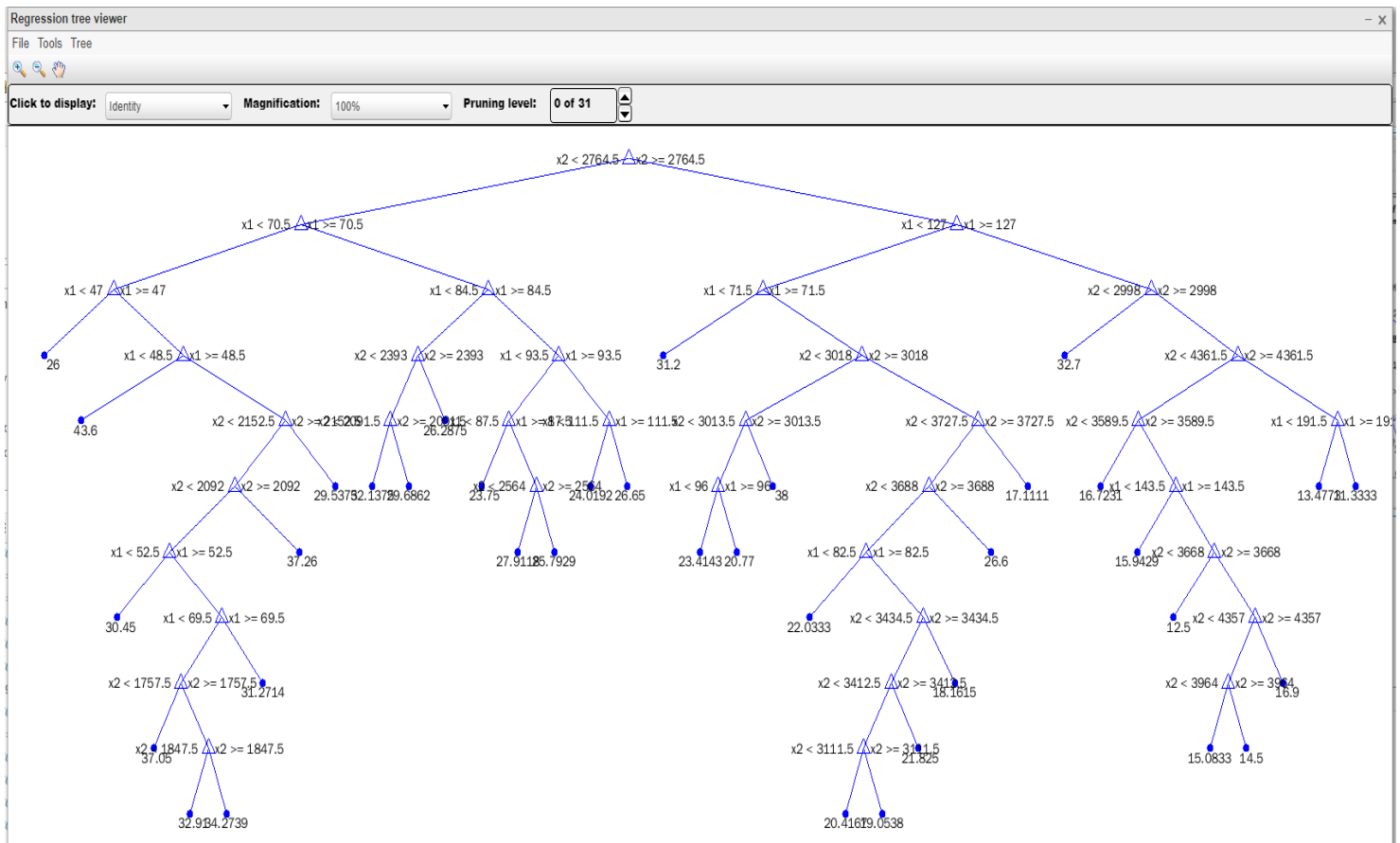# LAB ASSIGNMENT – 12 : CARBIGDATASET

~CHARVI JAIN (RA2111047010113)

INPUT DATA:

```
load carbig
X = [MPG,Acceleration,Displacement,Weight,Horsepower];
varNames = {'MPG'; 'Acceleration'; 'Displacement'; 'Weight'; 'Horsepower'};
X = [Horsepower Weight];
rtree = fitrtree(X,MPG,'MinParent',30); % create classification tree
view(rtree, 'mode','graph') % text description
cvt=crossval(rtree,'CVPartition',gcp)
dtCVErr=kfoldLoss(cvt)
```



```
cvt =

    RegressionPartitionedModel
        CrossValidatedModel: 'Tree'
            PredictorNames: {'x1'   'x2'}
              ResponseName: 'Y'
           NumObservations: 398
                     KFold: 10
                 Partition: [1×1 cvpartition]
         ResponseTransform: 'none'


    Properties, Methods
    dtCVErr = 19.4367
```