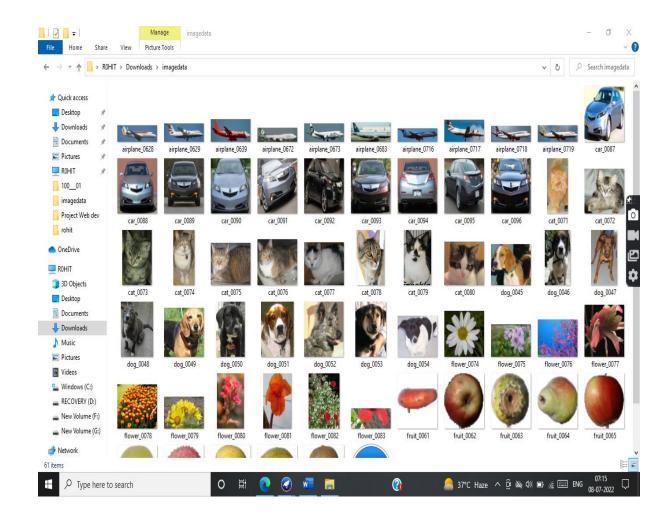
#### UNIVERSITY OF JAMMU, BHADERWAH CAMPUS

NAME: ROHIT MANHAS

MCA SEM 4TH

## **Image Classification Using Weka**

Collect dataset of images

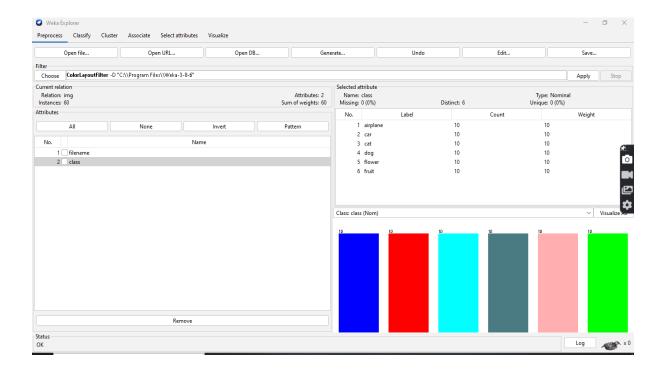


## Prepare dataset file

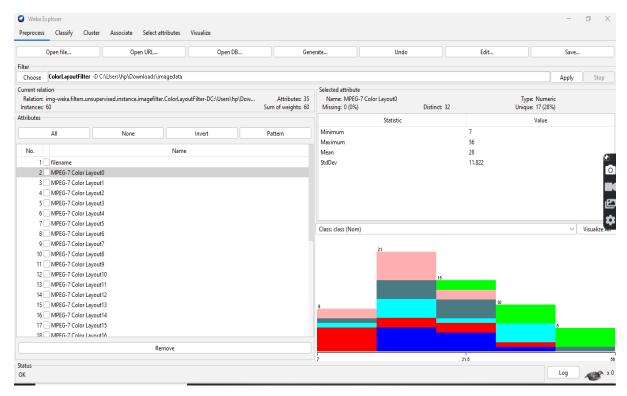
```
img - Notepad
File Edit Format View Help
@relation img
@attribute filename string
@attribute class {airplane,car,cat,dog,flower,fruit}
@data
airplane_0628.jpg,airplane
airplane_0629.jpg,airplane
airplane_0639.jpg,airplane
airplane_0672.jpg,airplane
airplane_0673.jpg,airplane
airplane_0683.jpg,airplane
airplane_0716.jpg,airplane
airplane_0717.jpg,airplane
airplane 0718.jpg,airplane
airplane_0719.jpg,airplane
car_0087.jpg,car
car_0088.jpg,car
car_0089.jpg,car
car 0090.jpg,car
car 0091.jpg,car
car_0092.jpg,car
car_0093.jpg,car
car_0094.jpg,car
car_0095.jpg,car
car_0096.jpg,car
cat_0071.jpg,cat
cat_0072.jpg,cat
cat_0073.jpg,cat
cat_0074.jpg,cat
cat_0075.jpg,cat
cat_0076.jpg,cat
cat_0077.jpg,cat
cat_0078.jpg,cat
cat 0079.jpg.cat
```

• file name save as '.arff' file e.g img.arff

# Open file in Weka

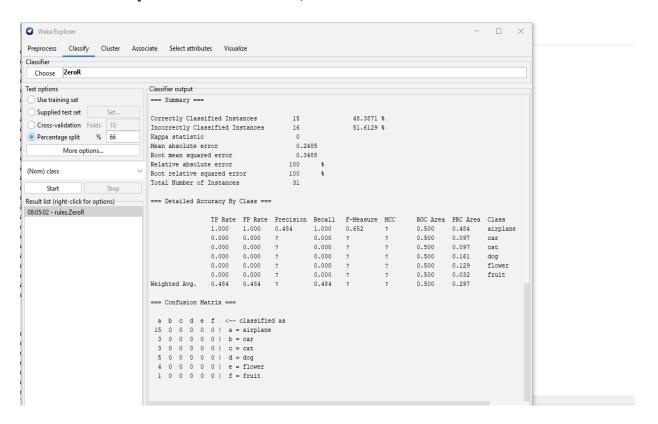


Choose imagefilter(colorlayout filter) and apply

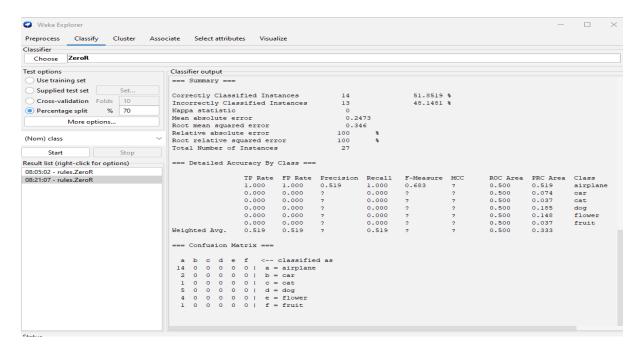


### Classification

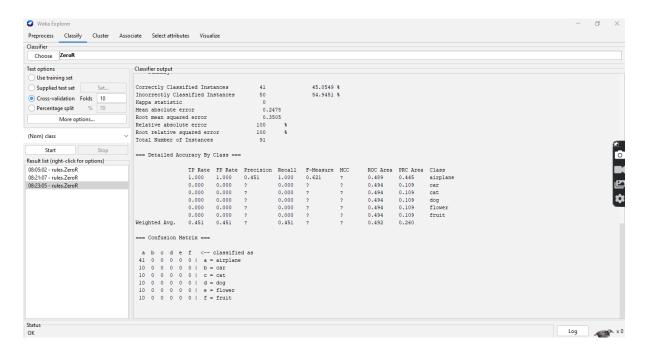
### •Test mode: split 66.0% train, remainder test



### •Test mode: split 70.0% train, remainder test



• Test mode: 10-fold cross-validation



Test mode: 20-fold cross-validation

