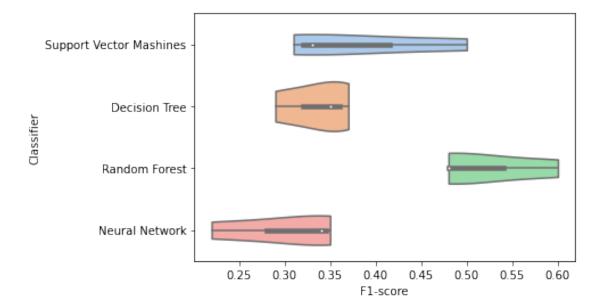
modelling_results_1_0-interp_data-rem_feat-no_border_rem

May 14, 2023

```
import pandas as pd
      import seaborn as sns
      data = pd.read_pickle("df_results_1_0")
 [9]:
      data
 [9]:
                                                                      Timestamp
                       Classifier
                                   Precision
                                              Recall
                                                       F1-score
      1
         Support Vector Mashines
                                        0.30
                                                 0.38
                                                           0.33
                                                                 10052023_2224
                   Decision Tree
                                                 0.50
                                                                 10052023_2224
      3
                                        0.27
                                                           0.35
      5
                   Random Forest
                                        0.51
                                                 0.45
                                                           0.48
                                                                 10052023_2224
      7
                  Neural Network
                                        0.20
                                                           0.22
                                                                 10052023_2224
                                                 0.25
                                                                 10052023_2235
         Support Vector Mashines
                                        0.29
                                                 0.32
                                                           0.31
      1
      3
                   Decision Tree
                                        0.36
                                                 0.25
                                                           0.29
                                                                 10052023 2235
                   Random Forest
                                                                 10052023_2235
      5
                                                 0.38
                                                           0.48
                                        0.65
      7
                  Neural Network
                                                           0.35
                                                                 10052023_2235
                                        0.29
                                                 0.45
      1
         Support Vector Mashines
                                        0.48
                                                 0.52
                                                           0.50
                                                                 10052023_2247
      3
                                                           0.37
                                                                 10052023_2247
                   Decision Tree
                                        0.58
                                                 0.28
      5
                   Random Forest
                                        0.74
                                                 0.50
                                                           0.60
                                                                 10052023_2247
      7
                  Neural Network
                                        0.26
                                                 0.48
                                                           0.34 10052023_2247
      data.groupby(by="Classifier").mean().round(2)
[18]:
                                Precision Recall F1-score
      Classifier
                                             0.34
                                                        0.34
      Decision Tree
                                     0.40
      Neural Network
                                     0.25
                                             0.39
                                                        0.30
      Random Forest
                                     0.63
                                             0.44
                                                        0.52
      Support Vector Mashines
                                     0.36
                                             0.41
                                                        0.38
[16]: data.describe()
「16]:
                            Recall
                                     F1-score
             Precision
      count
             12.000000
                        12.000000
                                    12.000000
      mean
              0.410833
                          0.396667
                                     0.385000
              0.175782
                          0.101025
                                     0.107492
      std
      min
              0.200000
                          0.250000
                                     0.220000
      25%
              0.285000
                          0.310000
                                     0.325000
```

```
50% 0.330000 0.415000 0.350000
75% 0.527500 0.485000 0.480000
max 0.740000 0.520000 0.600000
```

```
[10]: ax = sns.violinplot(data=data, y="Classifier", x="F1-score", orient="h", □ □ palette="pastel", showmeans=True, cut=0)
```

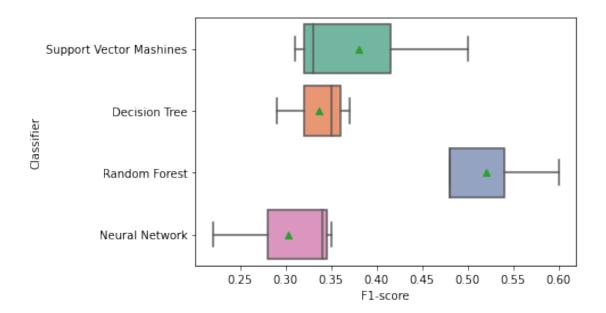


```
[11]: ax = sns.boxplot(data=data, y="Classifier", x="F1-score", orient="h",⊔

→palette="Set2", showmeans=True)

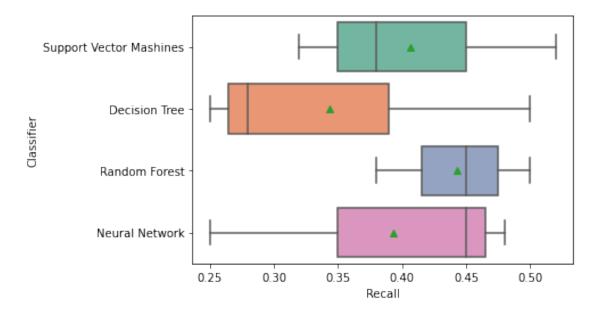
# sns.boxplot(data=data, y="Classifier", x="Recall", orient="h", color="white",⊔

→showmeans=True, ax=ax)
```



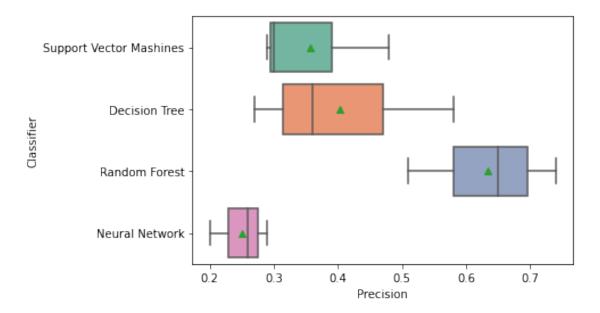
```
[12]: sns.boxplot(data=data, y="Classifier", x="Recall", orient="h", palette="Set2",⊔ ⇔showmeans=True)
```

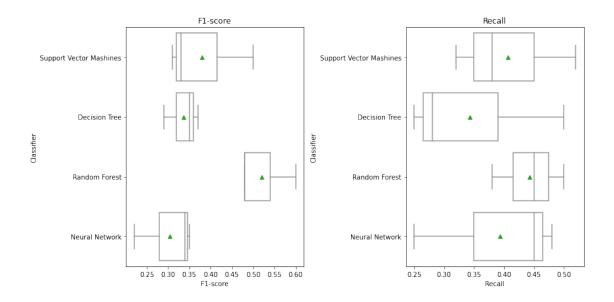
[12]: <AxesSubplot:xlabel='Recall', ylabel='Classifier'>

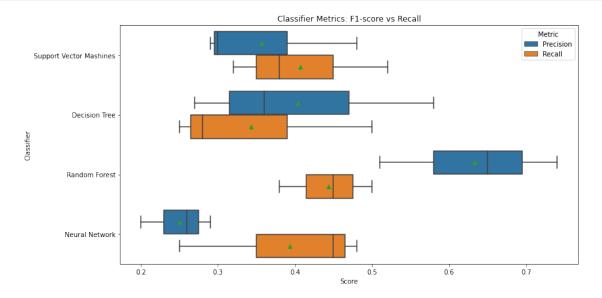


```
[13]: sns.boxplot(data=data, y="Classifier", x="Precision", orient="h", orient
```

[13]: <AxesSubplot:xlabel='Precision', ylabel='Classifier'>







[]: