

# lab\_1

March 15, 2021

## 1 Adam Jochna

```
[67]: import pandas as pd
      from config import PROJECT_PATH
      import matplotlib.pyplot as plt
      import seaborn as sns
      %matplotlib inline
      sns.set(rc={'figure.figsize':(8, 8)})
```

```
[68]: def plot_0(df, x_arg):
      sns.set_theme(style="ticks", palette="pastel")

      g = sns.boxplot(
          x=x_arg,
          y="f_score",
          data=df
      )
      g.set_yscale("logit")

      sns.despine(offset=10, trim=True)
      plt.show()
```

```
[69]: def plots_for_dataset(df, dataset_type):
      df_tmp = df.loc[df['dataset_type'] == dataset_type]

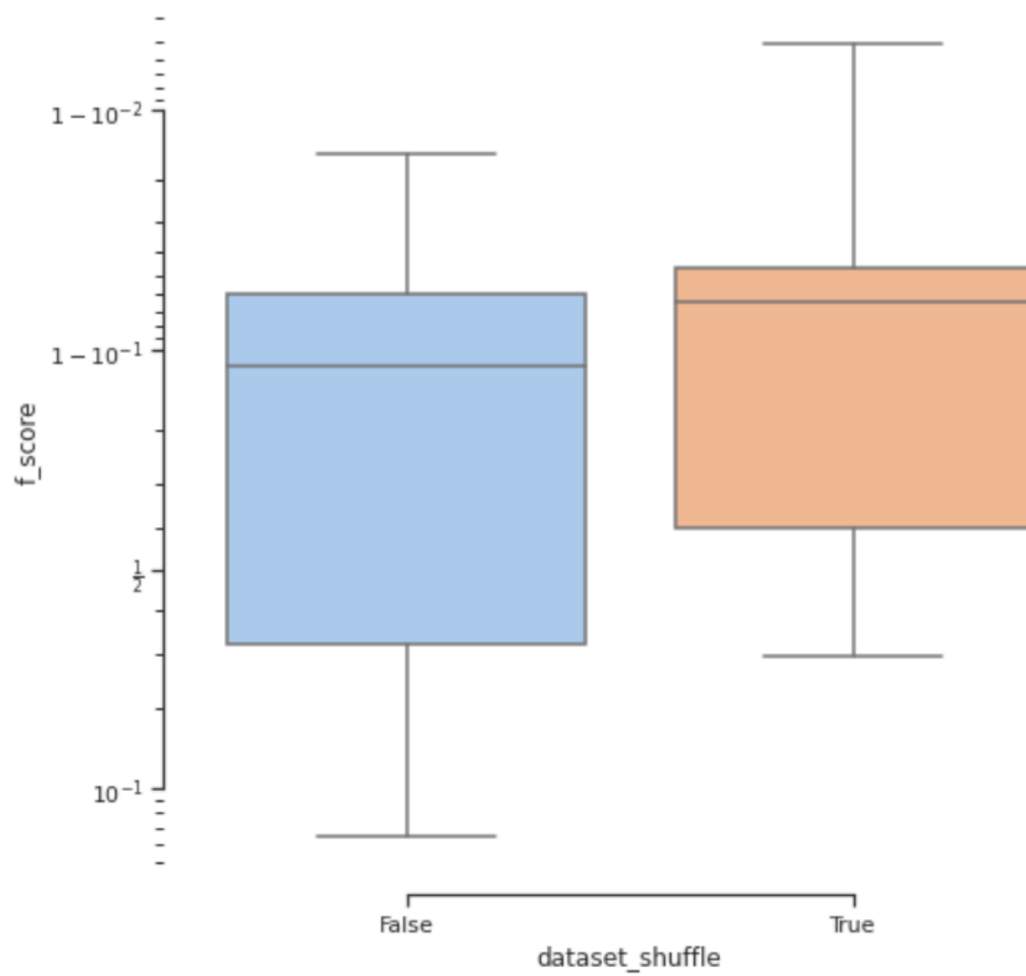
      x_args = list(df_tmp.columns)
      x_args.remove('dataset_type')
      x_args.remove('f_score')

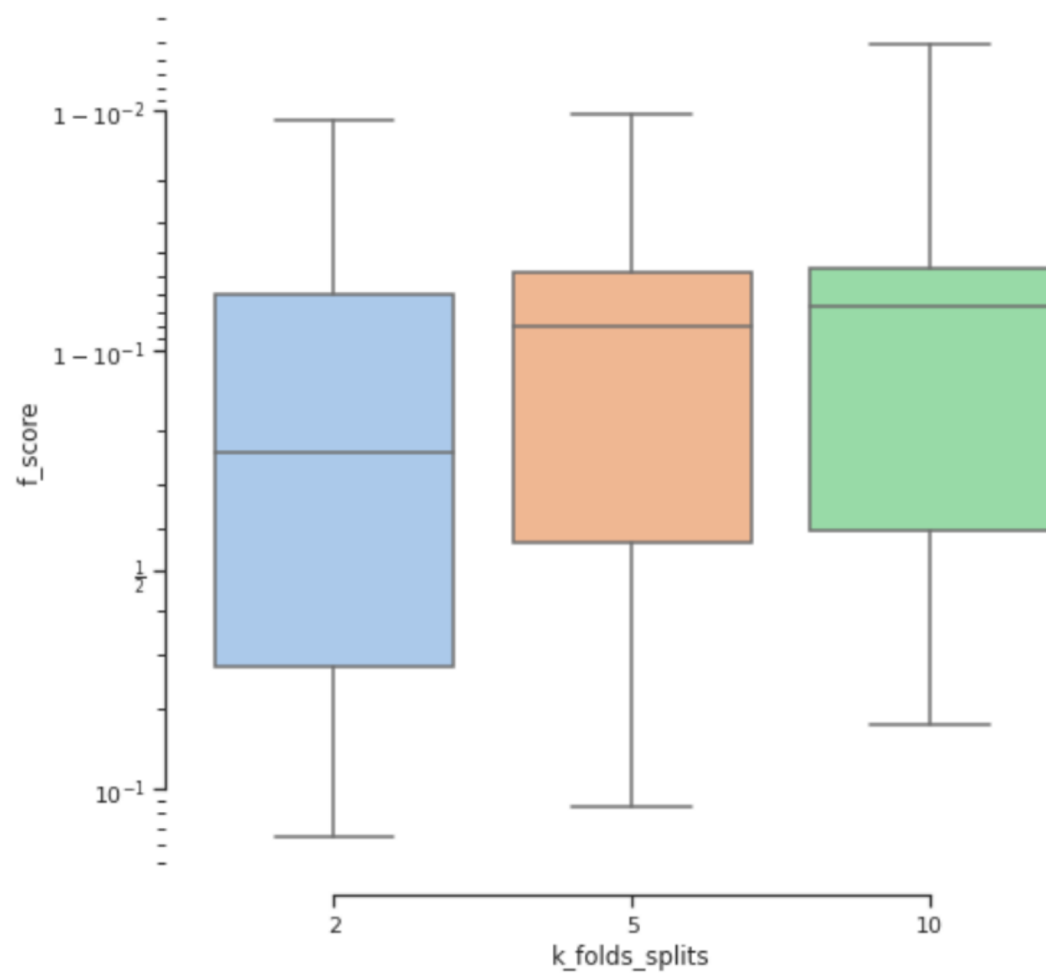
      df_tmp = df_tmp[x_args]
      df_tmp = df_tmp.groupby(x_args, as_index=False).mean()
      df_std = df_tmp.groupby(x_args, as_index=False).std()
      df_tmp['f_score_std'] = df_std['f_score']

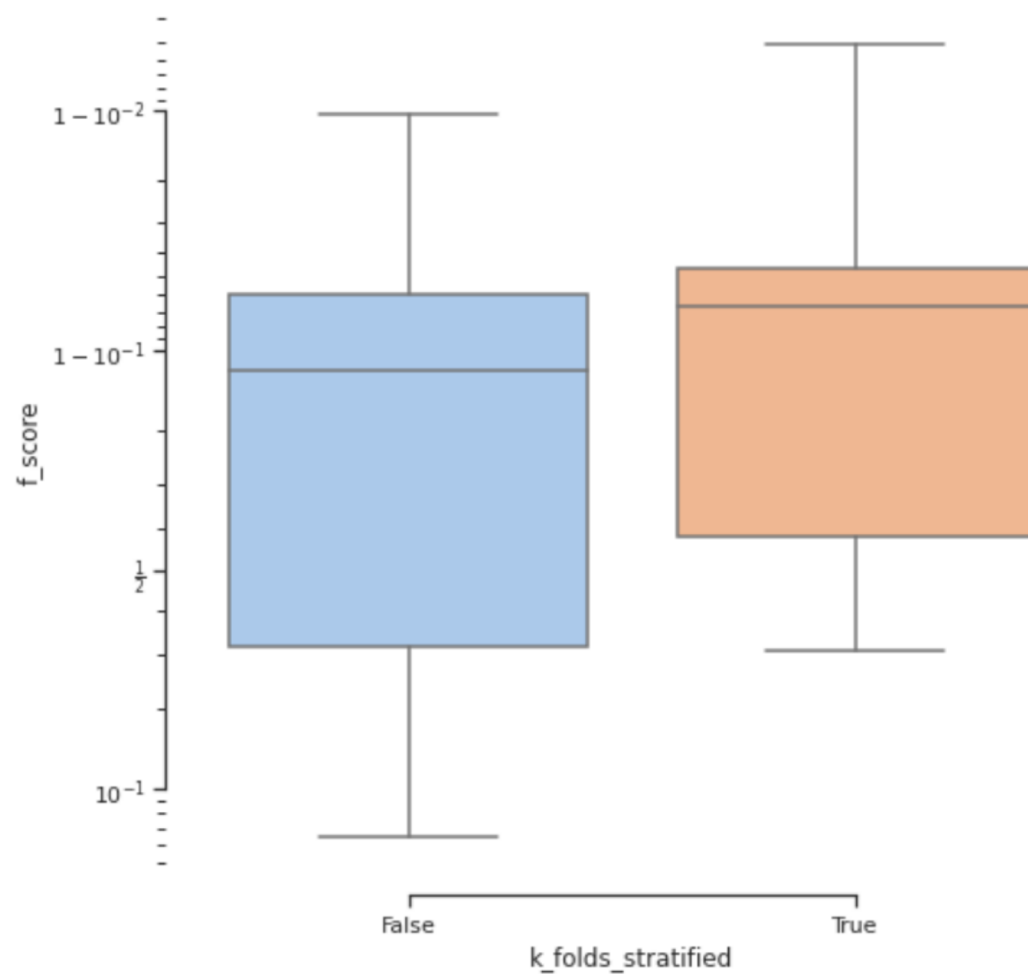
      for x_arg in x_args:
          plot_0(df, x_arg)
```

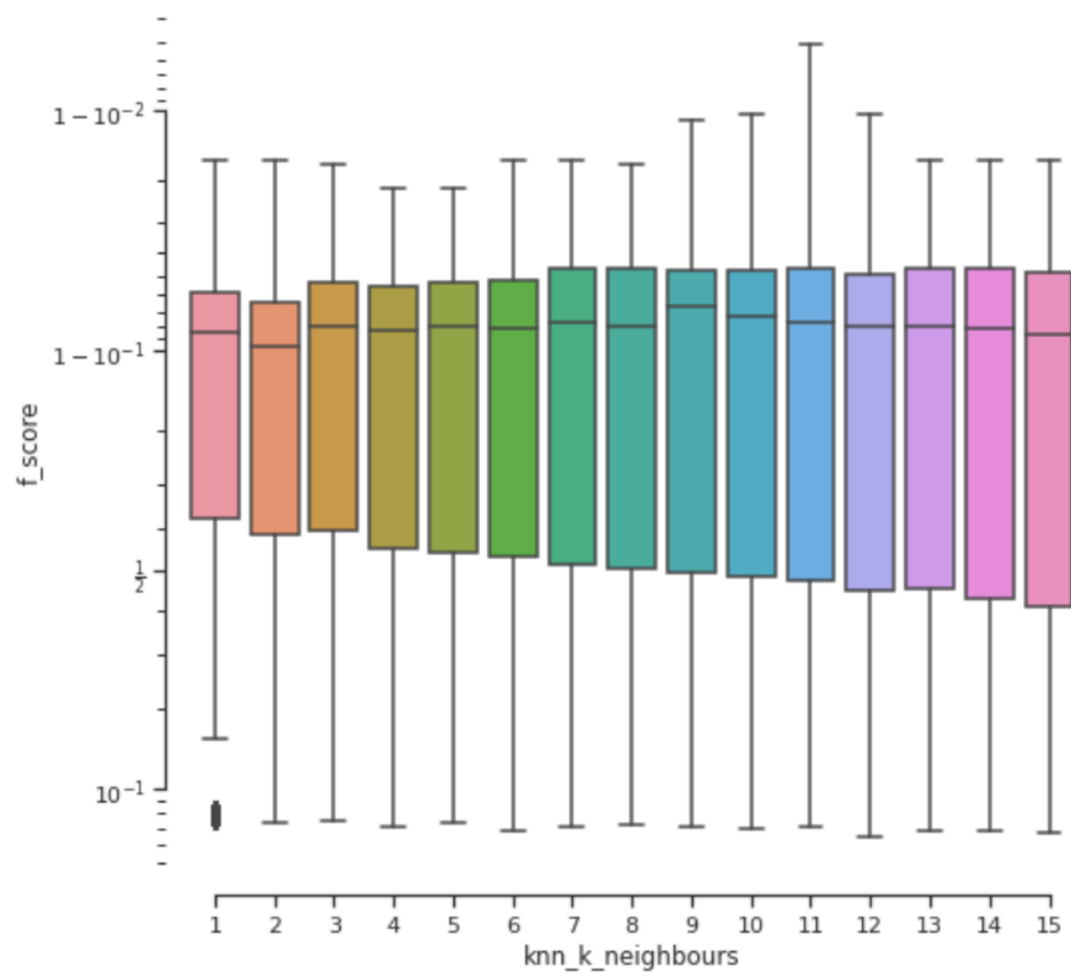
```
[70]: df = pd.read_csv('{}lab_1/results.csv'.format(PROJECT_PATH))
```

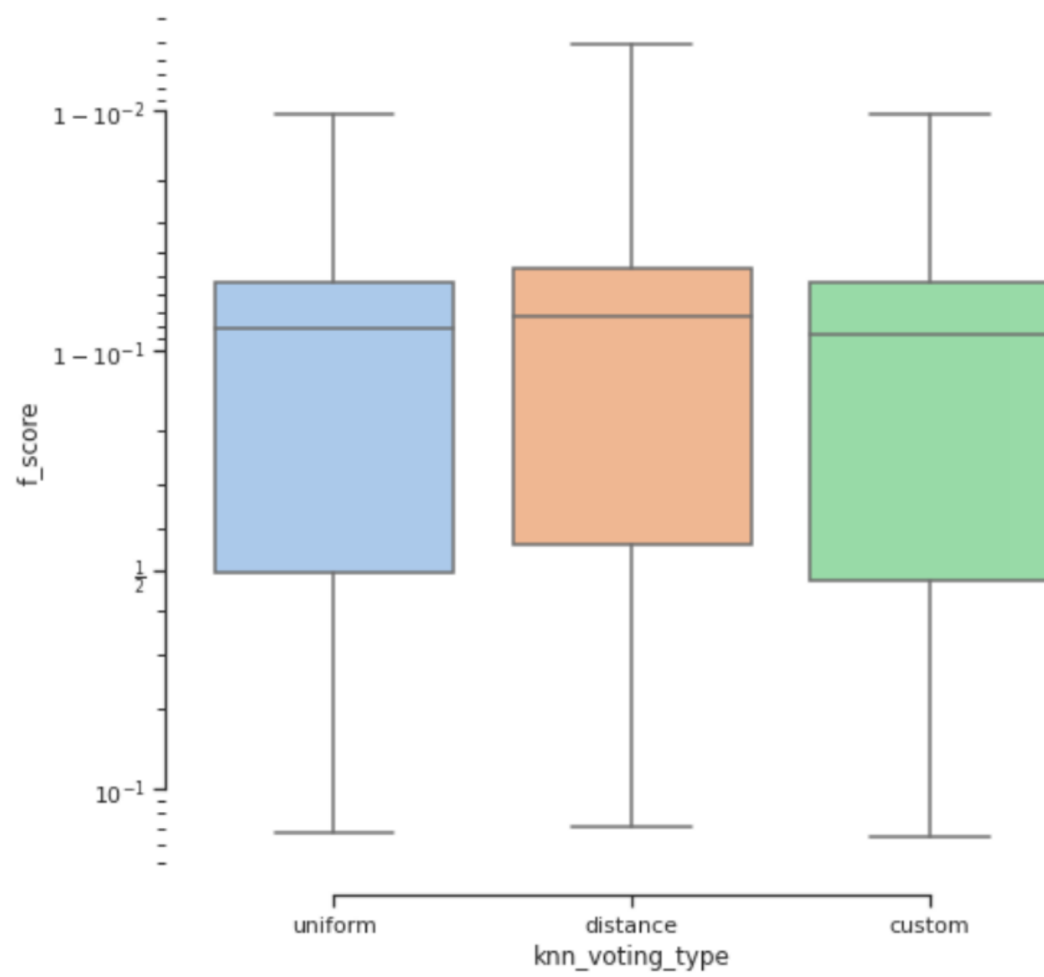
```
[71]: plots_for_dataset(df.copy(), 'iris')
```

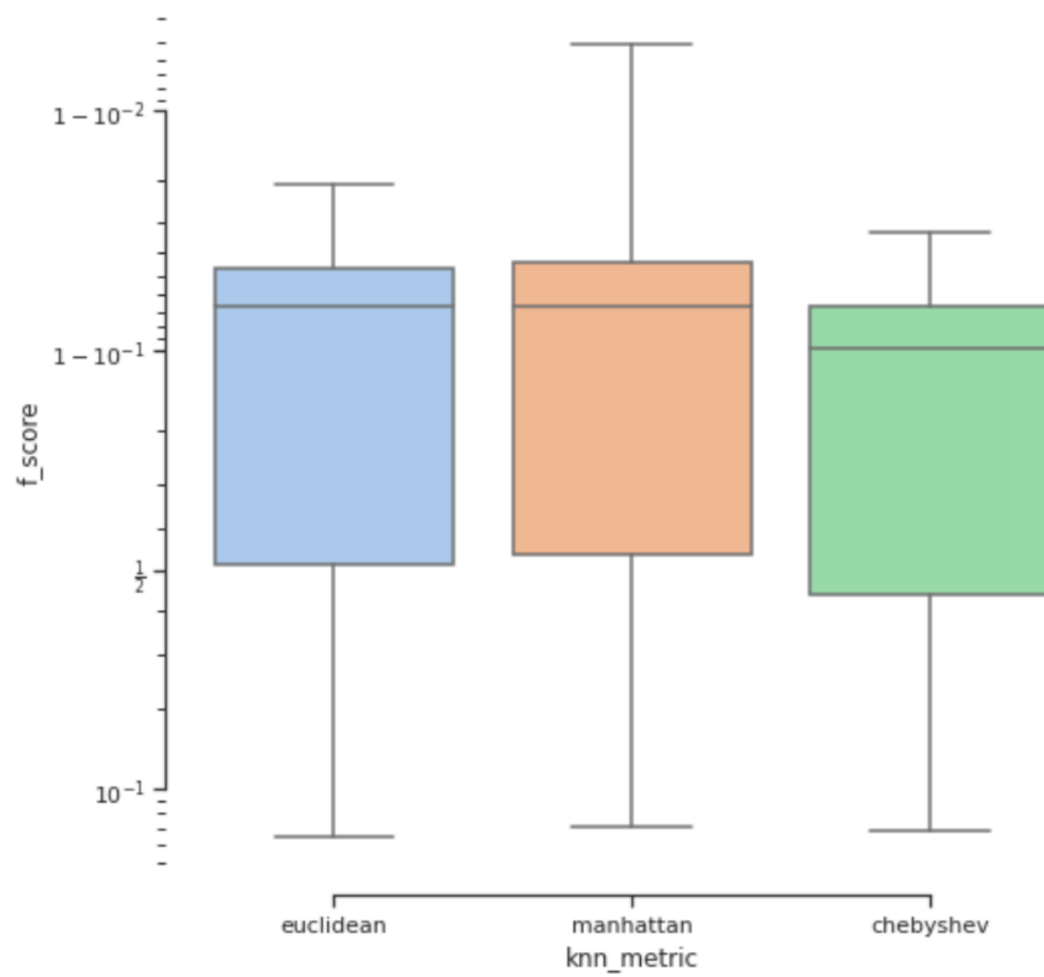




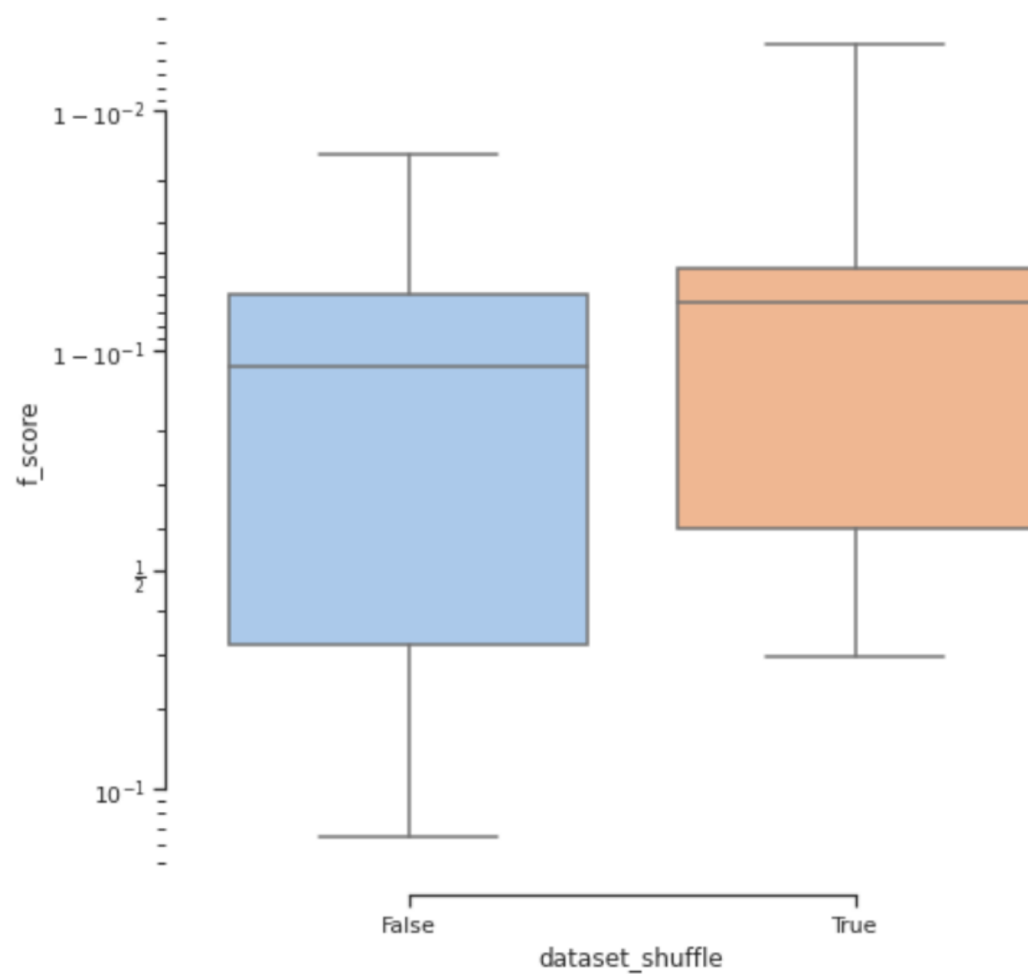




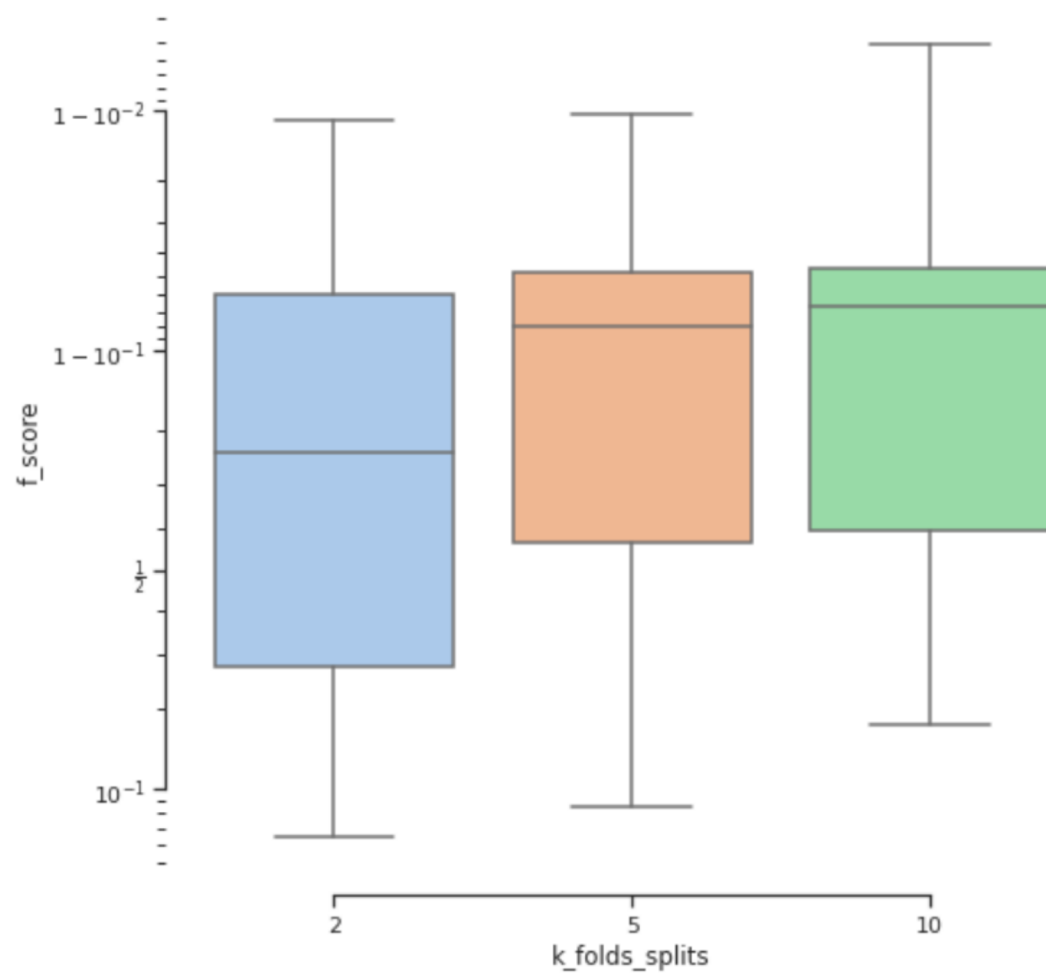


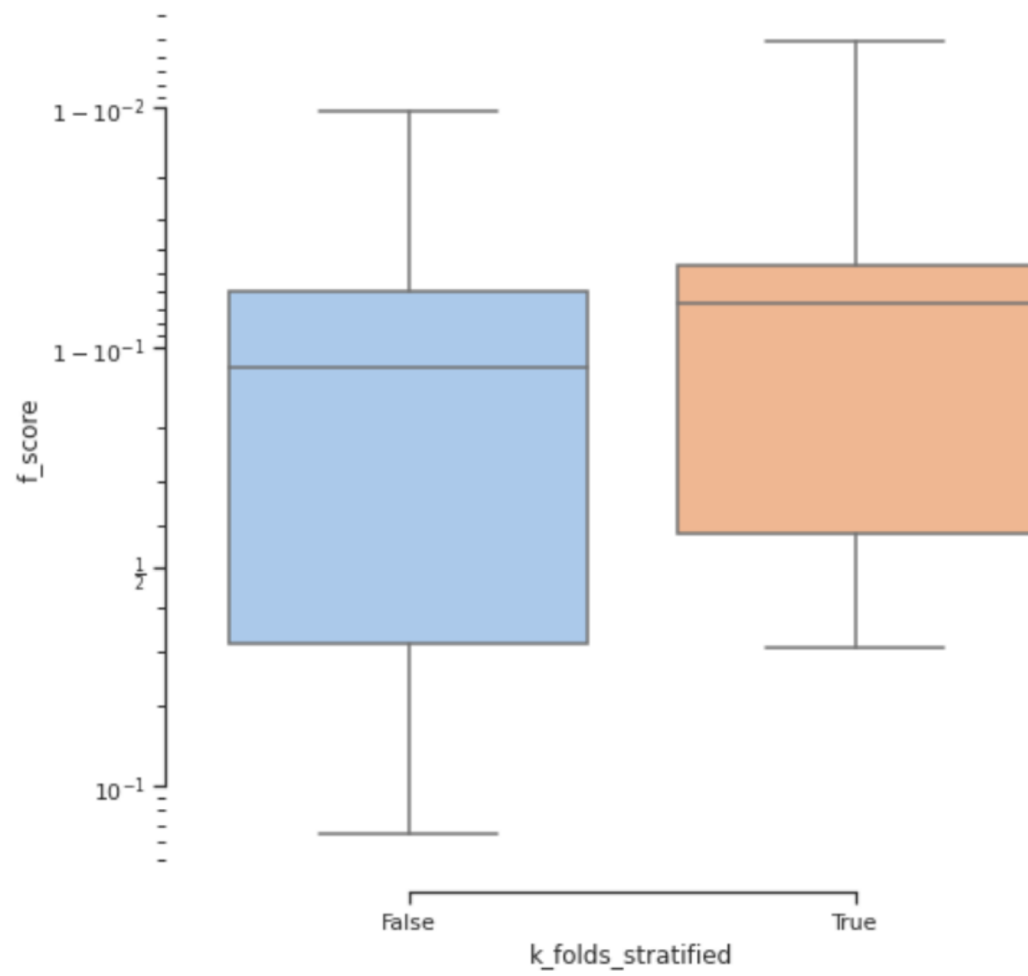


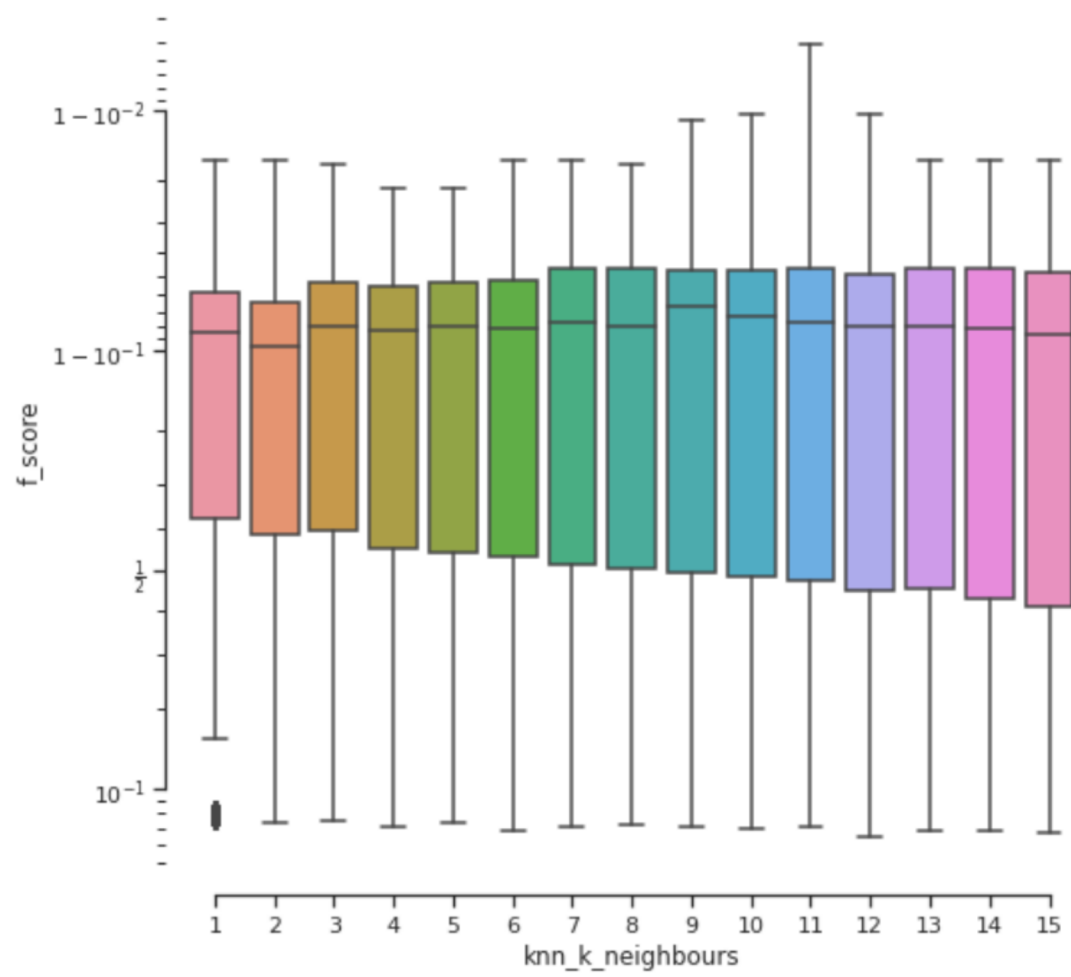
```
[72]: plots_for_dataset(df.copy(), 'wine')
```

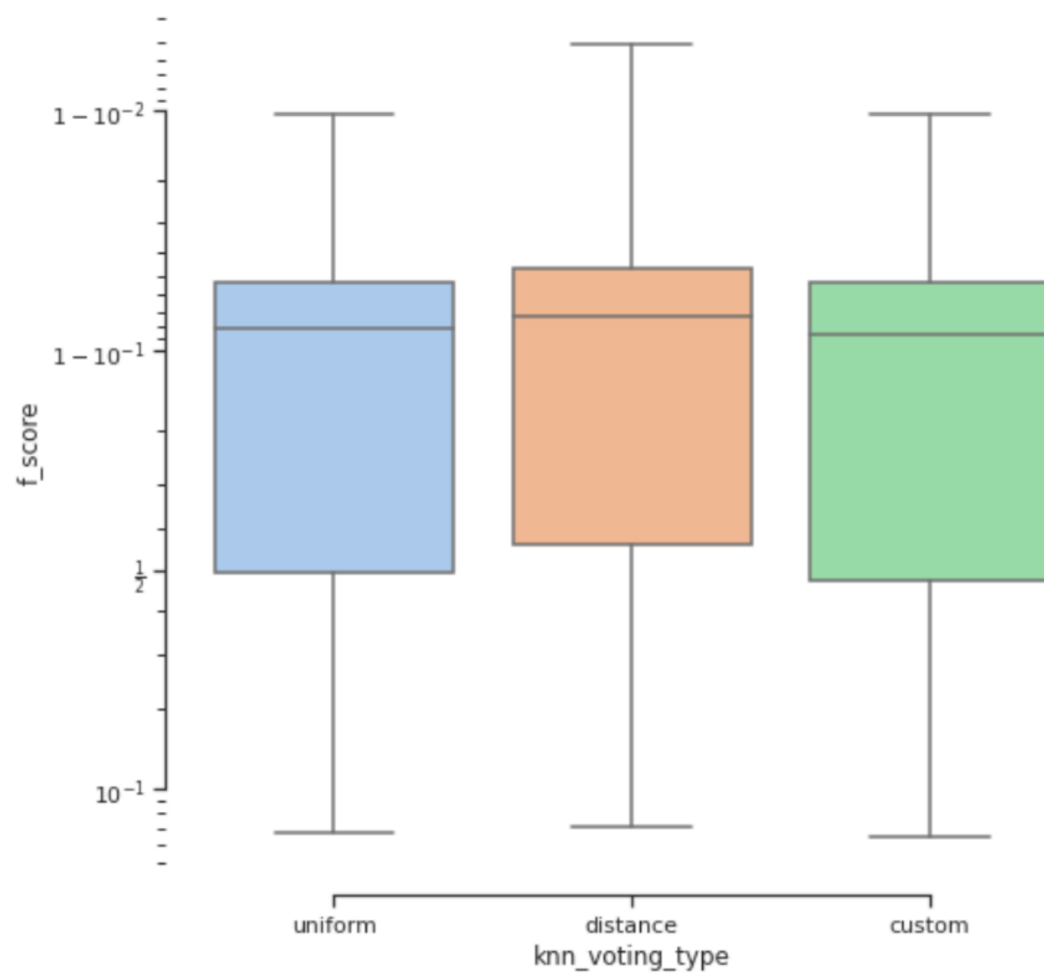


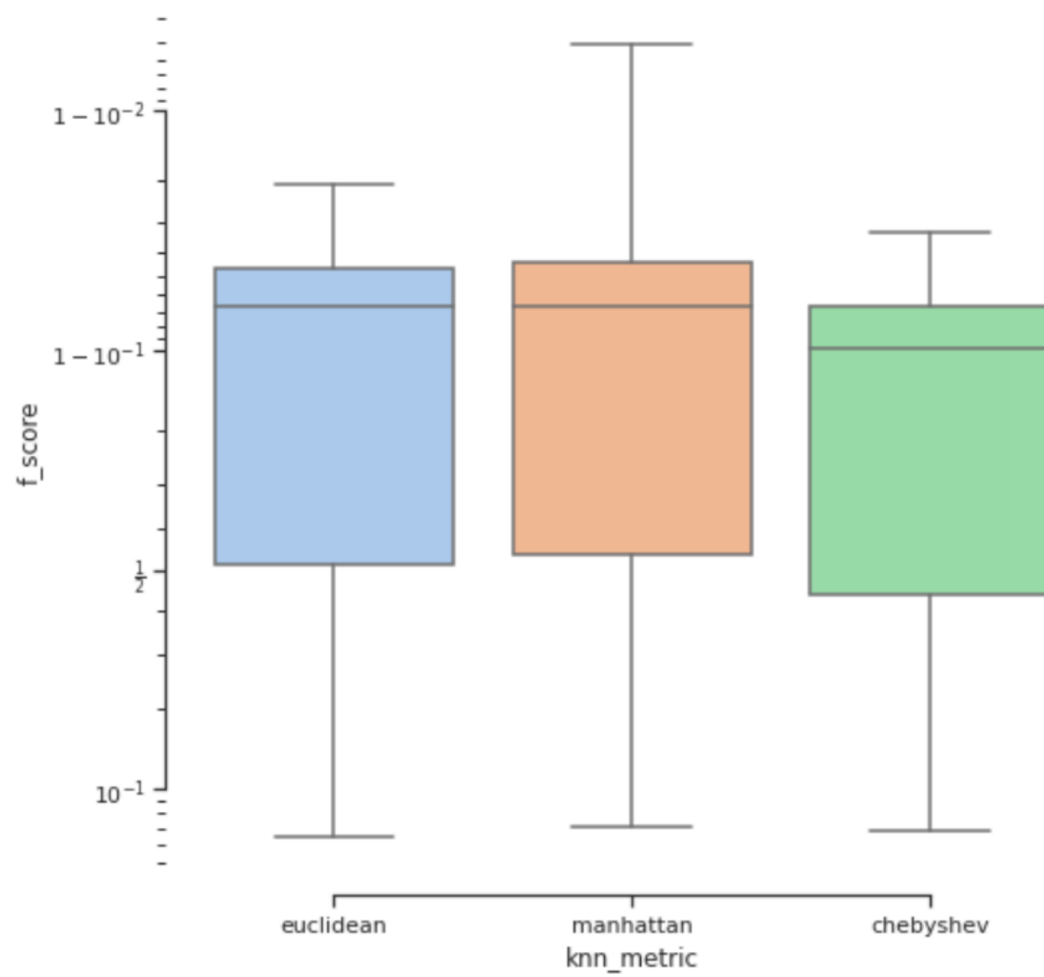












```
[73]: plots_for_dataset(df.copy(), 'glass')
```

