viz fixed n2v

September 21, 2022

```
[]: import os
     import pickle
     import pandas as pd
     from tabulate import tabulate
     import seaborn as sns
     import matplotlib.pyplot as plt
     %matplotlib inline
[]: # Build dataframe from records
     dir_ = "../tmp_cache/"
     data = []
     for file_ in os.listdir(dir_):
         with open(f"{dir_}/{file_}", "rb") as fh:
             data_ = pickle.load(fh)
             data.append(data_)
     df = pd.DataFrame.from_records(data)
     df.to_csv("tmp_df.csv")
[]: # Remove extraneous data
     df = df.query("distance != 'logistic'")
     df = df.drop(["N", "prob", "rep", "largest_component", "dimensions", | 

¬"walk_length", "num_walks", "workers", "window", "min_count", "batch_words",

     G"kmax", "_time_embedd", "_time_all"], axis="columns")
     print(
         tabulate(df.head(), headers="keys", tablefmt="fancy_grid")
     )
```

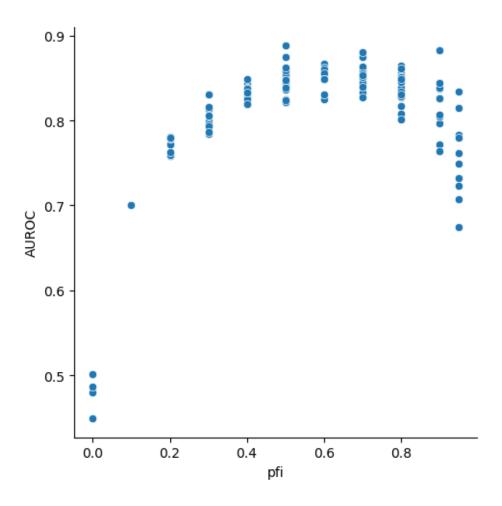
```
tau1 tau2 avg_k min_community mu pfi distance
AUROC Accuracy

2 2.5 1 12 100 0.75 0.5 inverse
```

```
0.852966 0.540897
```

```
6 2.1 1
                   5
                              10 0.3 0.8 negexp
0.836798 0.746951
 7 2.9 1
                   5
                              10 0.3
                                      0
                                           inverse
0.479614 0.517438
10 2.1 1
                   5
                              10 0.3
                                       0.6 inverse
0.855903 0.522023
11 2.9 1
                   5
                              10 0.1 0.8 inverse
0.808048 0.531447
```

<Figure size 640x480 with 0 Axes>

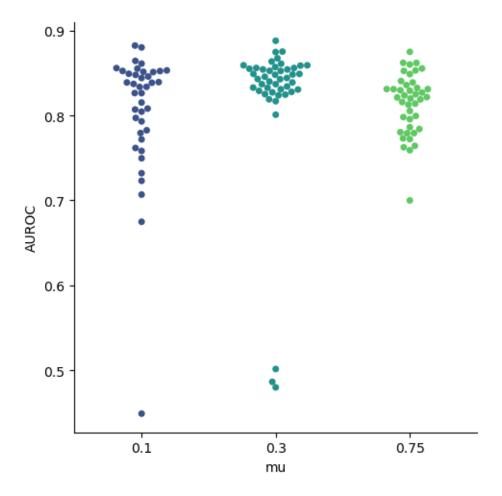


```
[]: plt.figure()
    sns.catplot(
        data=df, kind="swarm",
        x="mu", y="AUROC",
        palette="viridis"
)

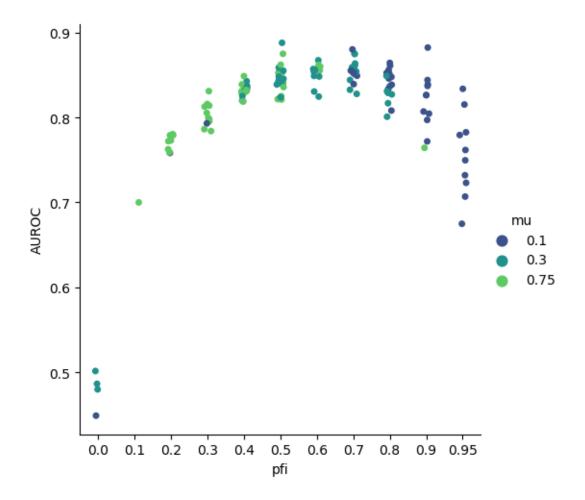
plt.figure()
    sns.catplot(
        data=df, kind="strip",
        x="pfi", y="AUROC",
        hue="mu", palette="viridis"
)
```

[]: <seaborn.axisgrid.FacetGrid at 0x7fd0d7685ba0>

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<Figure size 640x480 with 0 Axes>



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