# visualisation

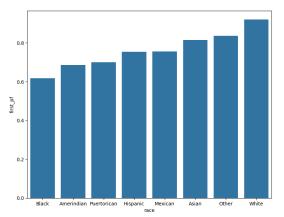
June 16, 2025

```
[]: import pandas as pd
     data = pd.read_csv("law_data.csv")
     mean_success_race = data.groupby("race")["first_pf"].mean()
     mean_success_sex = data.groupby("sex")["first_pf"].mean()
     mean_note_race = data.groupby("race")["UGPA"].mean()
     mean_note_sex = data.groupby("sex")["UGPA"].mean()
     display(mean_success_race, mean_success_sex)
     display(mean_note_race, mean_note_sex)
    race
    Amerindian
                   0.686869
    Asian
                   0.815385
    Black
                   0.617785
    Hispanic
                   0.754098
    Mexican
                   0.755784
    Other
                   0.836177
    Puertorican
                   0.700000
                   0.920263
    White
    Name: first_pf, dtype: float64
    sex
    1
         0.876271
         0.897911
    Name: first_pf, dtype: float64
    race
    Amerindian
                   2.961616
    Asian
                   3.218107
    Black
                   2.893760
    Hispanic
                   3.138525
    Mexican
                   3.031620
    Other
                   3.207850
    Puertorican
                   3.022727
    White
                   3.259776
    Name: UGPA, dtype: float64
```

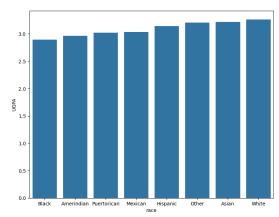
```
3.290133
    1
    2
         3.177134
    Name: UGPA, dtype: float64
[]: import seaborn as sns
     import matplotlib.pyplot as plt
     plt.rcParams['font.family'] = 'sans-serif'
     plt.rcParams['font.sans-serif'] = ['Tahoma', 'DejaVu Sans',
                                    'Lucida Grande', 'Verdana']
     fig, (ax1, ax2) = plt.subplots(1, 2, figsize=((20,7)))
     fig.suptitle("Success rate and average score based on ethnicity", fontsize=25)
     sns.barplot(ax=ax1, x = "race", y = "first_pf", data=mean_success_race.

→to_frame().sort_values(by="first_pf"))
     sns.barplot(ax=ax2, x = "race", y = "UGPA", data=mean_note_race.to_frame().
      ⇔sort_values(by="UGPA"))
     plt.show()
```

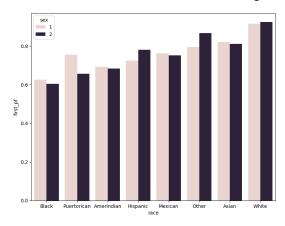
### Success rate and average score based on ethnicity

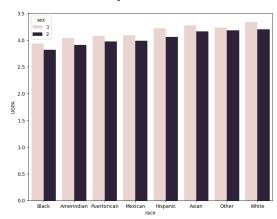


sex

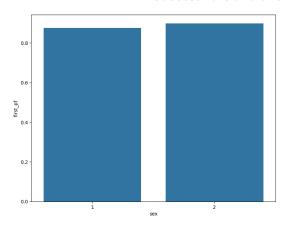


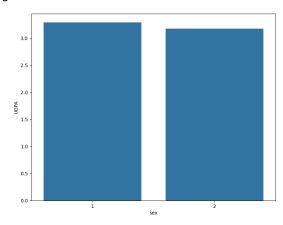
#### Success rate and average score based on ethnicity and sex





#### Success rate and average score based on sex





## Count based on ethnicity and sex

