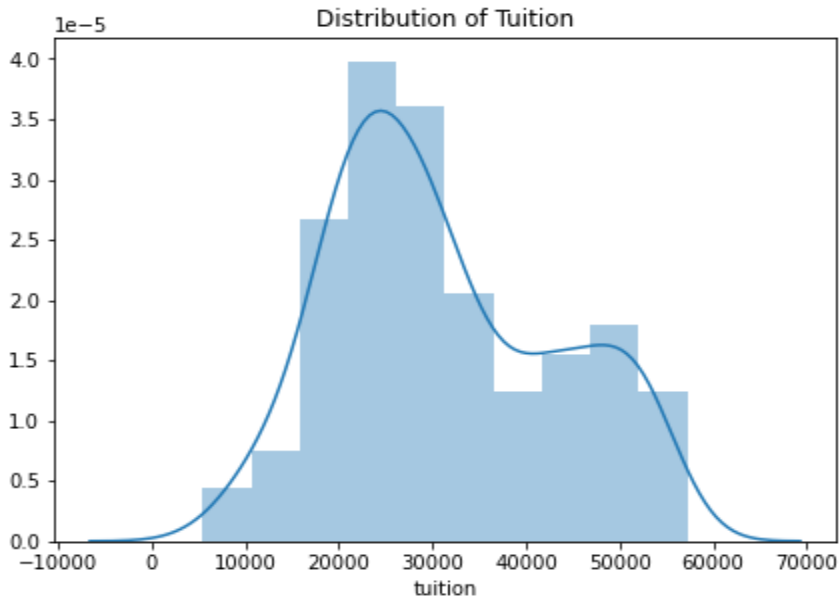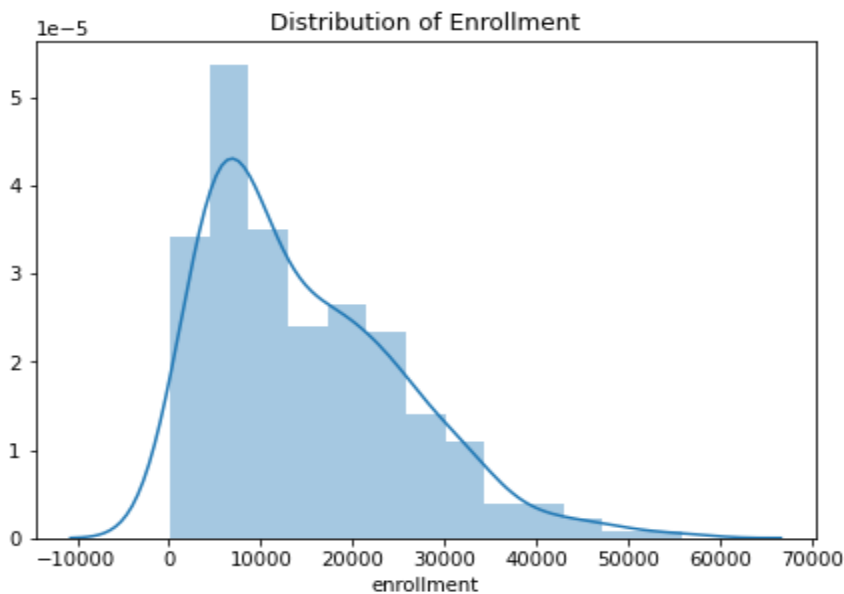# Analysis of Universities in the United State

- **Distribution Of Tuition And Enrollment In Universities Across The States**
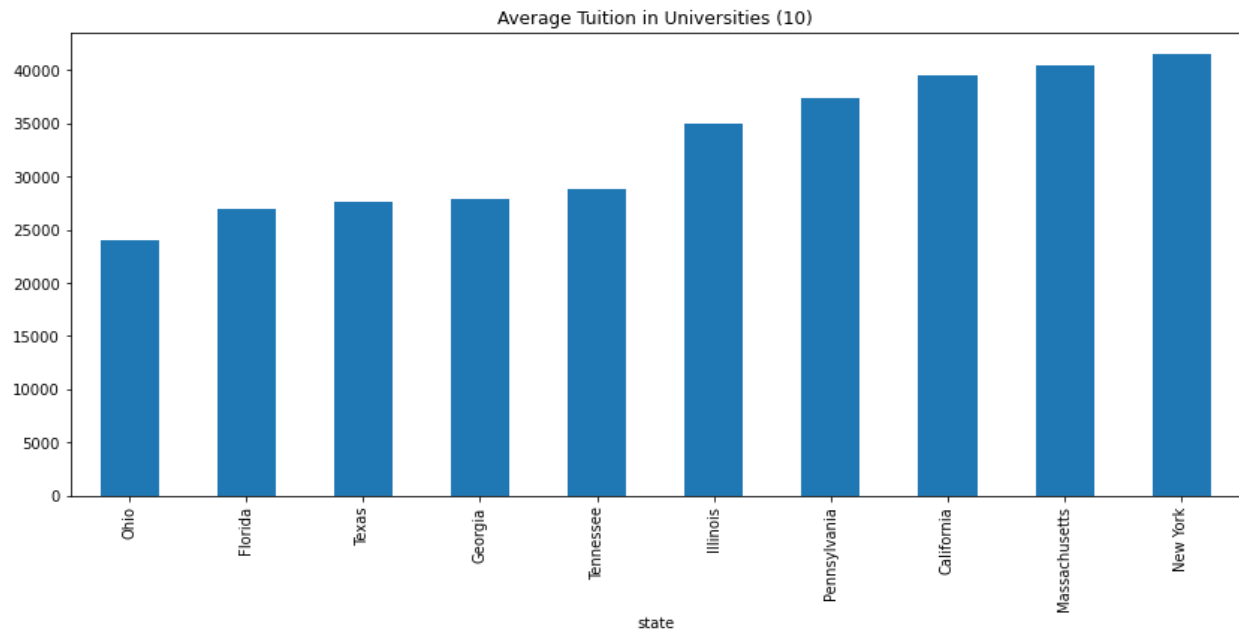

The distribution of tuition for universities in the US shows that the mode of tuition fee is about 25000.
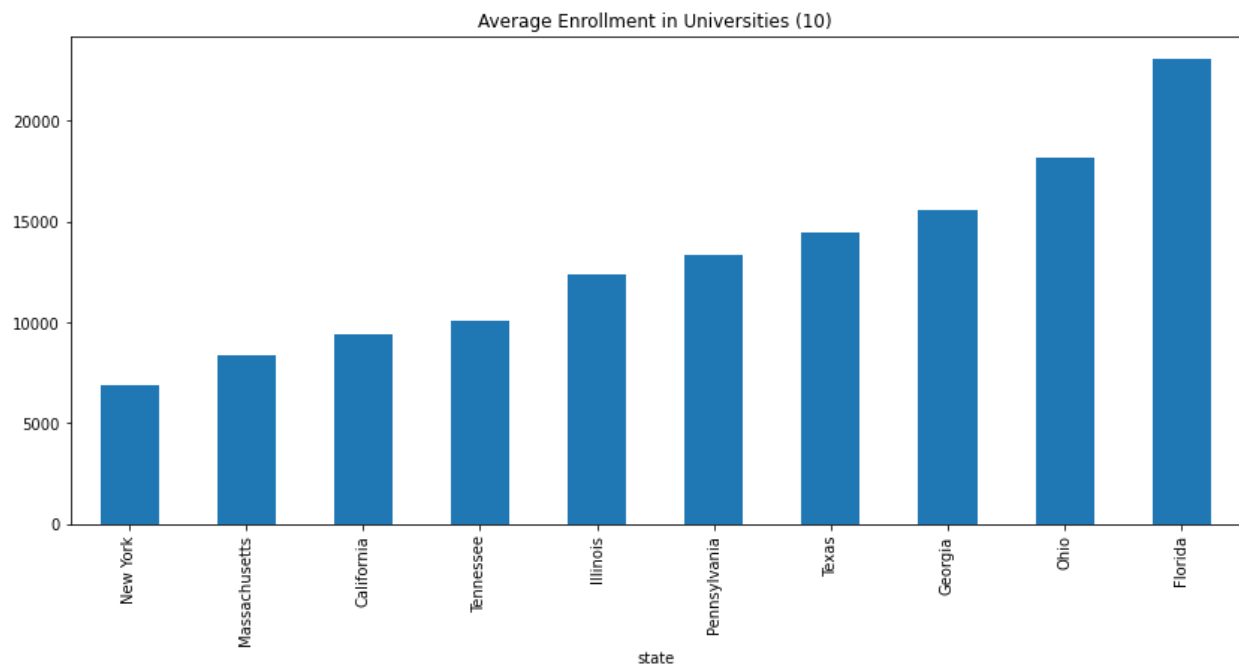

The distribution of enrollment for universities in the US shows that the mode of enrollment is about 10000. The plot above tells that there are some universities with very low and very high numbers of enrollments when compared to the median of the data.

Comparing Average Tuition and Average Enrollment in a balanced sample data

Average Tuition in Universities (10)

From the chart above, We see that universities in New York have the highest average (40000) Tuition fee in the United States, from using balanced sample data.
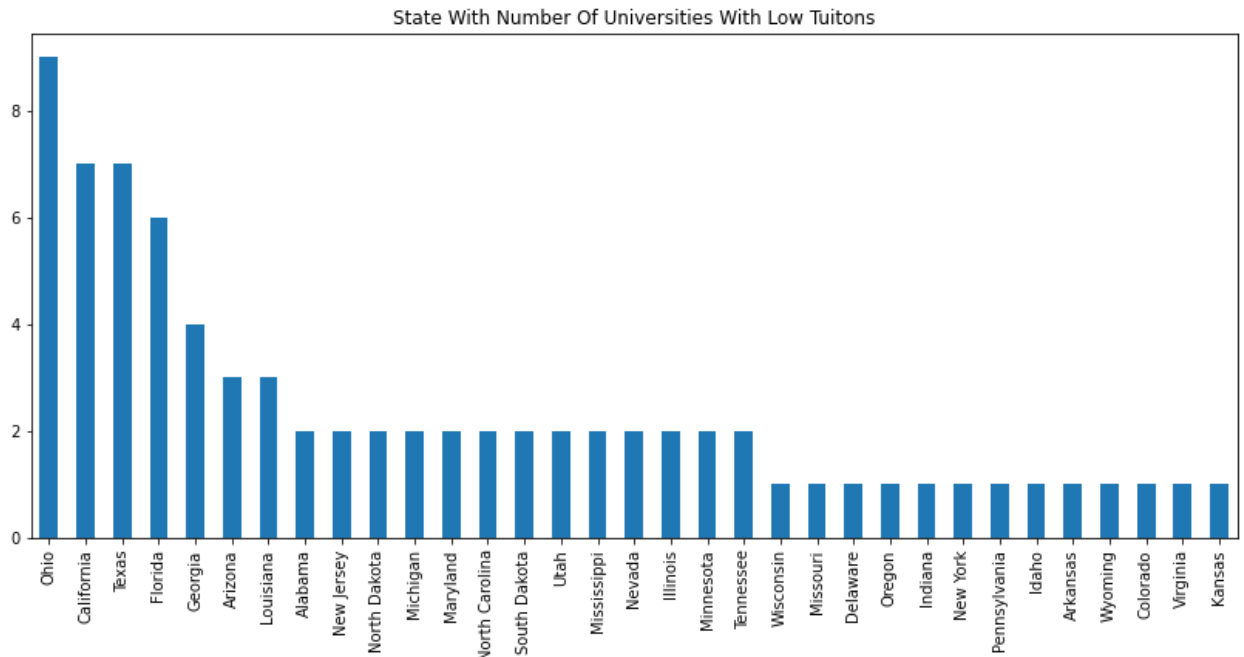
Average Enrollment in Universities (10)

How the tables have turned!

New York state universities now have the lowest average enrollment, while Florida has the highest average enrollment of university students. It's quite intuitive though: less tuition, more enrollment.

- **Discover Which State Has Universities With The Lowest Tuition.**

  Tuition of a university is considered low if it less that 25th percentile of all tuition fee in the United state (21,949 dollars)

State With Number Of Universities With Low Tuitons

From the chart above, Ohio state has the highest number of universities with 'low' tuition.

9 Universities in Ohio have Tuition below the 25th percentile of all tuition fees of universities across united state
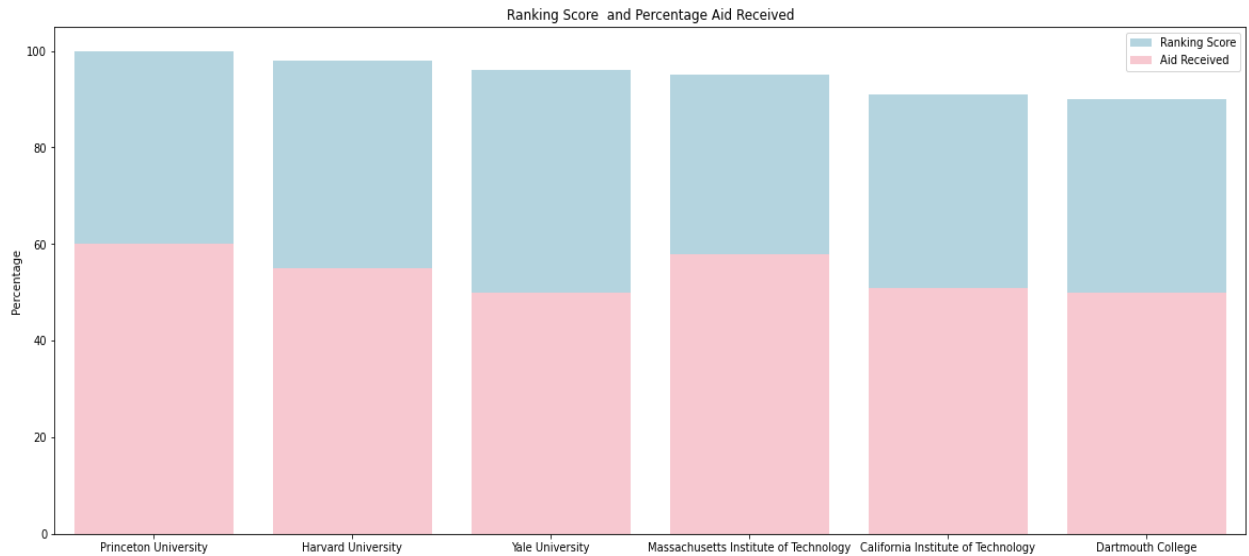
An economical student that has access to this information will be sure to focus their university applications within Ohio State.

- **Identify Top Ranking Universities Where A Good Percentage Of Their Students Receive Aid**

  If the ranking Display Score is greater than 80, then the university is considered a top ranking university.

  Also It's a good percentage if the percentage of university students receiving aid is at least 50%.

  From the plot below we see the Universities that have at least 50% of it's students receiving aid and have well above 80 rank-score.
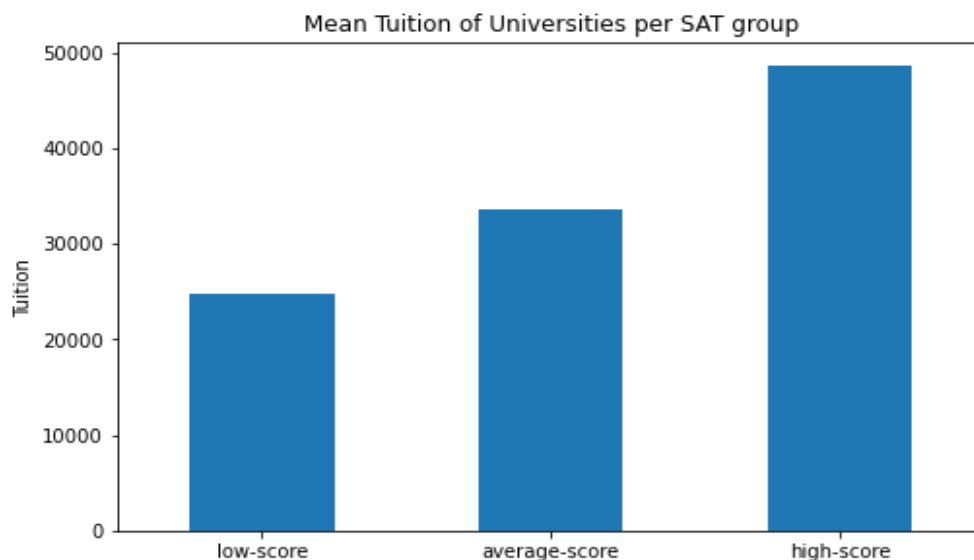
Ranking Score and Percentage Aid Received

 Princeton University seems to have a perfect 100 rank-score, and 60% of it's students receiving aid.

● <u>Cluster Universities Into Groups Based On The Average Sat Scores Of The Students</u>

I binned the universities into groups by discretizing the SAT scores.

The following groups I created are : low-score, average-score and high score.

From the chart below, we see that students with high SAT scores are likely to go to universities with high tuition.

Mean Tuition of Universities per SAT group

For the map below,

- Green represents universities that fell into the high sat-scores group.
- Blue represents universities that fell into the average sat-scores group.
- Red represents universities that fell into the low sat-scores group.

Above is a snippet of the interactive map that displays the universities in New York state.