**Unit 8 Notes**

* Make sure you understand the ecdf function
* Pearson\_r for correlation coefficient
* a, b = Np.polyfit(x, y, 1) for linear regression, 1 for exponent, slope, intercept
* Graphical EDA **PRIOR** to regression
* Bootstrapping – a resampled array of data with replacement and then compute a summary statistic again
  + Can plot an ECDF

Sampling Distribution Notes

*Central Limit Theorem*

* As long as a distribution has a well defined mean and standard deviation, we can take sample means which will produce an approximately normal distribution. It doesn’t take that larges of samples (n = 10+) to get very close to a normal distribution.
* As n approaches infinity, the resulting distribution approaches
* Positive kurtosis has a pointier center, negative has a rounder less distributed shape (half circle