**Analysis of Trends based on College Type**

Number of colleges analysed:

Engineering 19

Ivy League 8

Liberal Arts 47

Party 20

State 175

Chart, line chart

Description automatically generated Chart, bar chart

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* The above 2 graph shows the power of visualization. Here we can see that two college types (Ivy League and Engineering) and rest of the three college types start between 40-60k, but the Ivy League takes the lead from engineering at about Mid\_25th percentile and grows rapidly and exponentially.
* One interesting thing we notice is that Engineering starts falling behind Liberal Arts at Mid\_75.
* The state school salaries are significantly lower than the rest of college types even at the highest percentiles.
* At first the values of Ivy League Colleges seemed like outliers but, they are required as they reflect real life.
* The salaries at higher percentiles are higher.

Chart, scatter chart

Description automatically generated

Sub Analysis:

By Engineering College-:

* The min starting salary at these colleges is around 46K and max at 75.5K.The average start salary at the start is around 59K and jumps to about 100K by mid career.
* The first graph below shows the ranking of the colleges by the starting salary .CIT ,MIT and Harvey Mudd are the top 3 in that order.
* However if we see the percentage growth between the start salary and the mid career salary as depicted in the 2nd graph ,the top 3 colleges are WPI, Cooper Union and New Mexico Tech.

A picture containing diagram

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* The Highest Salaries were recorded across Ivy league, followed by engineering .

plt.boxplot([Engineering['Starting Median Salary'], Liberal Arts['Starting Median Salary'],

Party['Starting Median Salary'], State['Starting Median Salary']])

Table

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