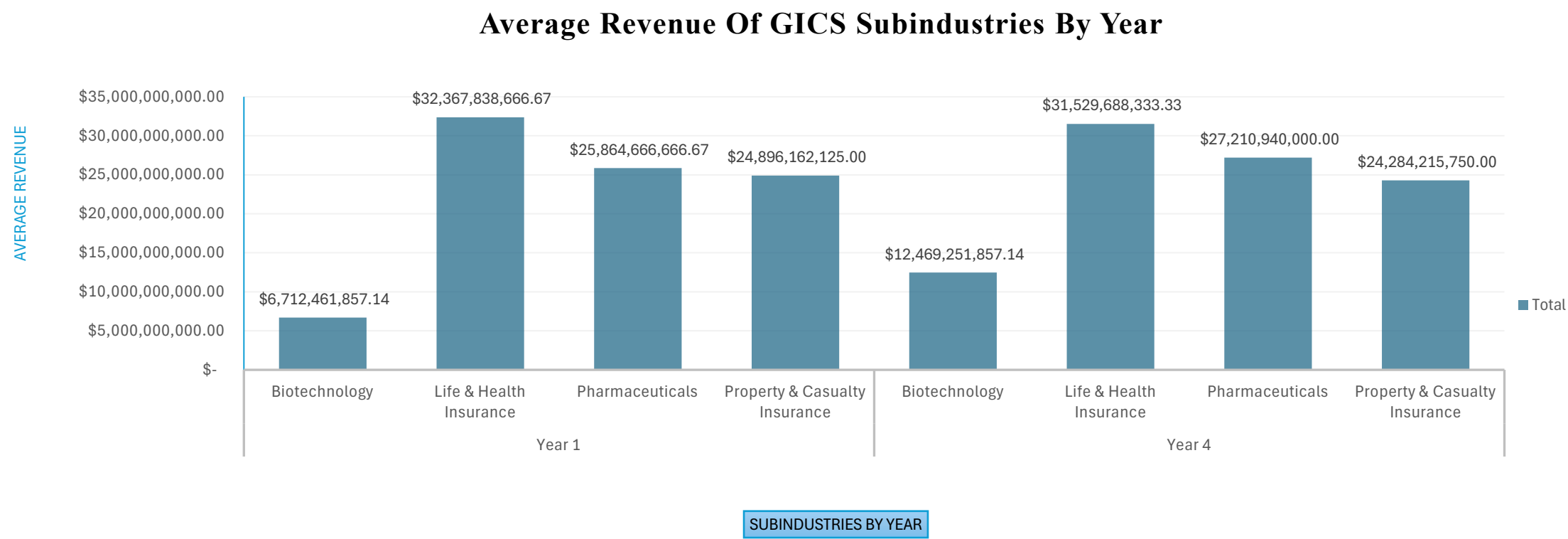


Titilayo Kuloyo

Udacity Analyze NYSE Data Excel Project

**Analysis of Total Revenue of GISC Subindustries (Pharmaceuticals,
Biotechnology, Property & Casualty Insurance, Life & Health
Insurance)**

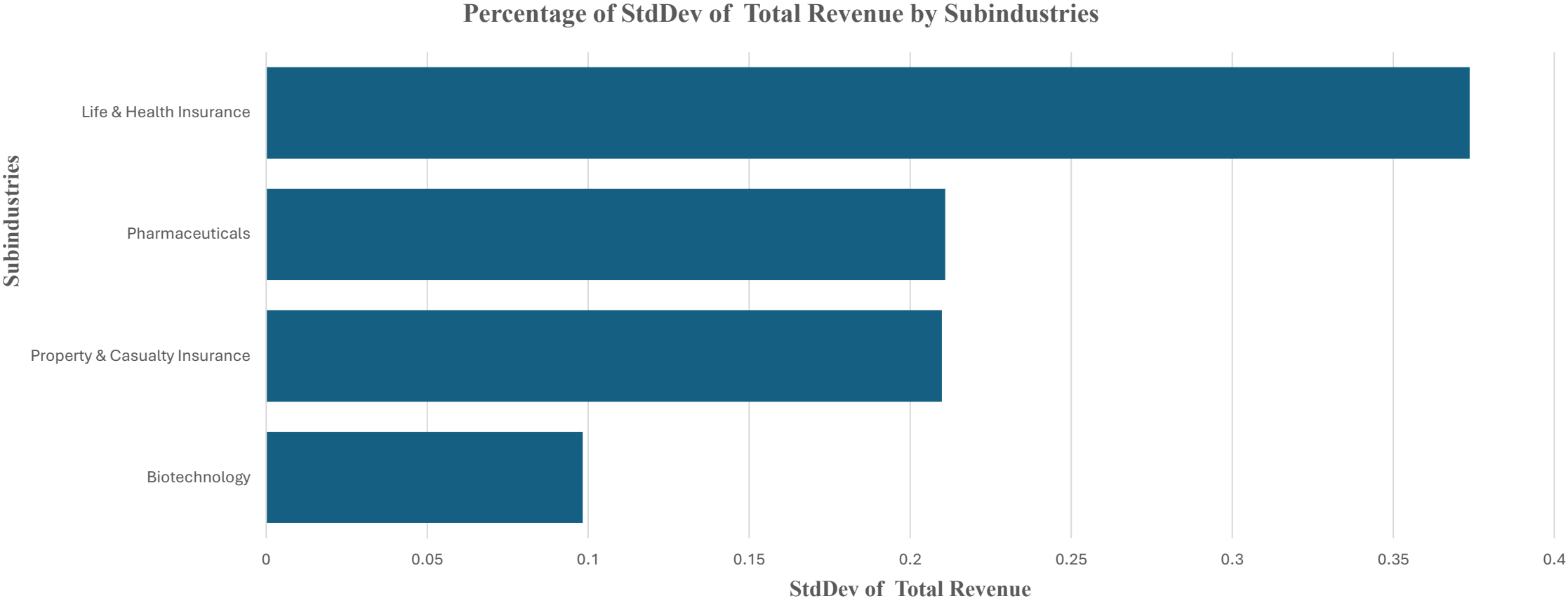
How did Average Revenue change in the Biotech and Pharmaceutical Industries in 4 Years? Did other subindustries experience this change?



Data Analysis of Total Revenue by Subindustry per year

- The chart includes the total revenue of 4 subindustries in 4 years.
- In year 1, the mean(average) total revenue for companies in the Biotechnology industry (\$6,712,461,857.14) is significantly lower than the mean total revenue for companies in the Pharmaceutical Industry (\$25,864,666,666.67).
- The mean total revenue of companies in the Life & Health Insurance Industry (\$32,367,838,666.67) is higher than the mean total revenue of companies in the P&C Insurance Industry (\$24,896,162,125.00) in Year 1.
- In year 4, The Biotechnology industry doubled its mean total revenue to \$12,469,251,857.14 billion. Pharmaceuticals increased to \$27,210,940,000.00 Billion.
- Life & Health Insurance shows a reduction in mean total revenue to \$31,529,688,333.33 Billion. Property & Casualty Insurance showed a reduction of mean total revenue to \$24,284,215,750.00 Billion in year 4.

Standard Deviation of Total Revenue of Subindustries



Data Analysis of Standard Deviation of Total Revenue

- Included in the slide above is standard deviation of the total revenue of subindustries (Biotechnology, Pharmaceuticals, P&C insurance, Life & Health Insurance)
- This reflects the range of how the revenue has changed in these industries in a span of 4 years, this helps determine the variability and volatility of each industries so stakeholders can make informed decisions.
- The Life and Health industry shows a higher variability e of over 35% , higher than other industries. Especially when compared to the biotechnology industry with a variability less than 10%.
- Pharmaceuticals and P&C insurance show a moderate variability around 20%.
- The high variability in life & health insurance could be due to several factor including customer base models and different business models but further analysis is required to make a conclusion.

References

<https://medium.com/@89ataksinem/standard-deviation-std-12efda3f269a>