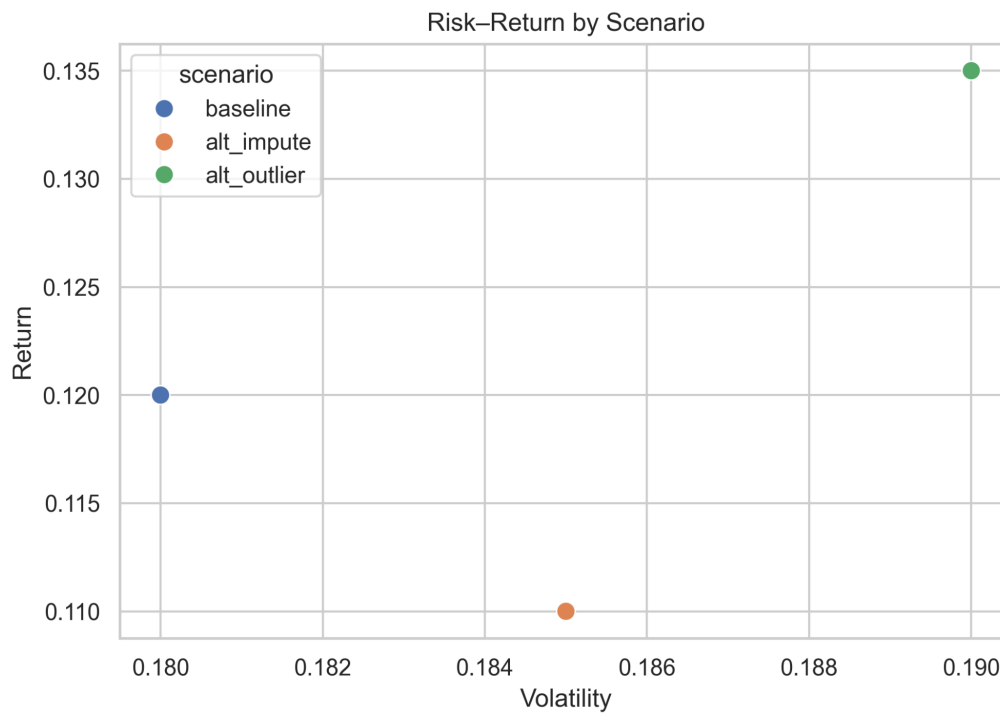**Executive Summary**

-This stock is worth to invest.

Visuals & Interpretation

Chart 1 – Risk–Return by Scenario

- Chart 1 shows the scatterplot of return vs volatility. Each scenario is positioned by its return and volatility. In the Chart 1, Baseline is balanced with mid-return and lower risk; Alt_impute has lower return with modestly higher volatility; Alt_outlier has highest return but also highest volatility.

Chart 2 – Return by Scenario
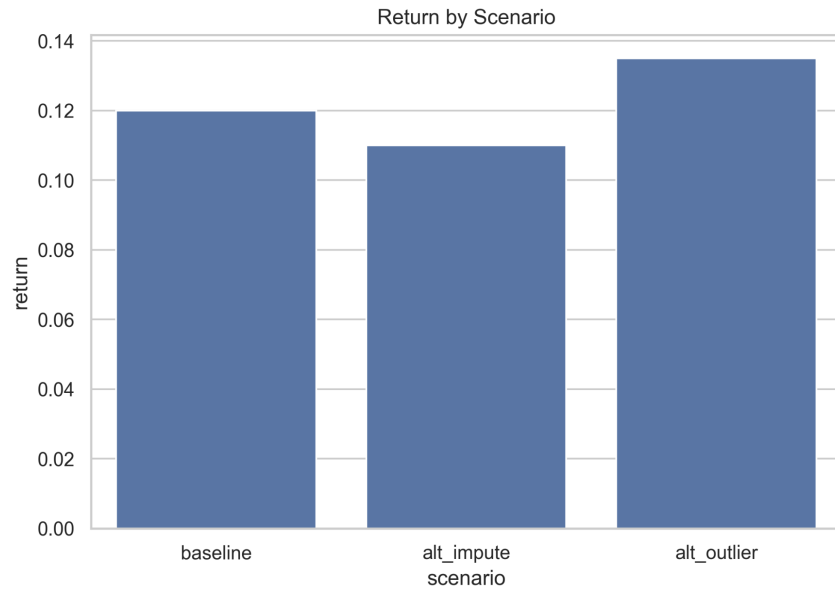
- Chart 2 shows the bar chart comparing returns across the three scenarios: baseline, alt_impute, and alt_outlier, and it indicates that alt_outlier has the highest return, around 13.5%.

Chart 3 – MetricA Over Time by Category
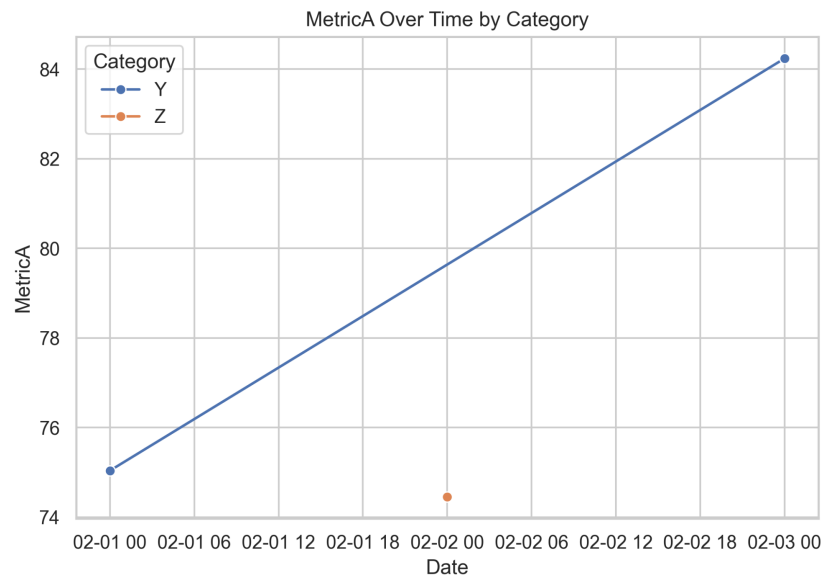
- Chart 3 shows the MetricA values vs dates on categories Y and Z. Category Y has 2 data points, while category Z has one. Due to the limited data points, there is not much takaway here.

Assumptions & Risks

- We assume that the return estimates are stable and representative.
- We only have limited historical data, which may lead to possible overfitting problem or bias.

Sensitivity Summary

	Assumption	Baseline Return	Alt Scenario Return
0	Fill Nulls: Median	0.12	0.10
1	Remove Outliers: 3σ	0.12	0.14

- Compared with the baseline returns:
  o When filling nulls with median, the return becomes lower, indicating that in practice, the stock does not have that high return 12%.
  o When removing the outliers, the return becomes higher, indicating that on average, the stock can have higher return without the influence of outliers.

Decision Implication

Overall, this stock is worth to invest because it has relatively high return and lower risk. After considering the influence of null values and outliers, I think it is reasonable to infer that the stock can achieve a 12% return.