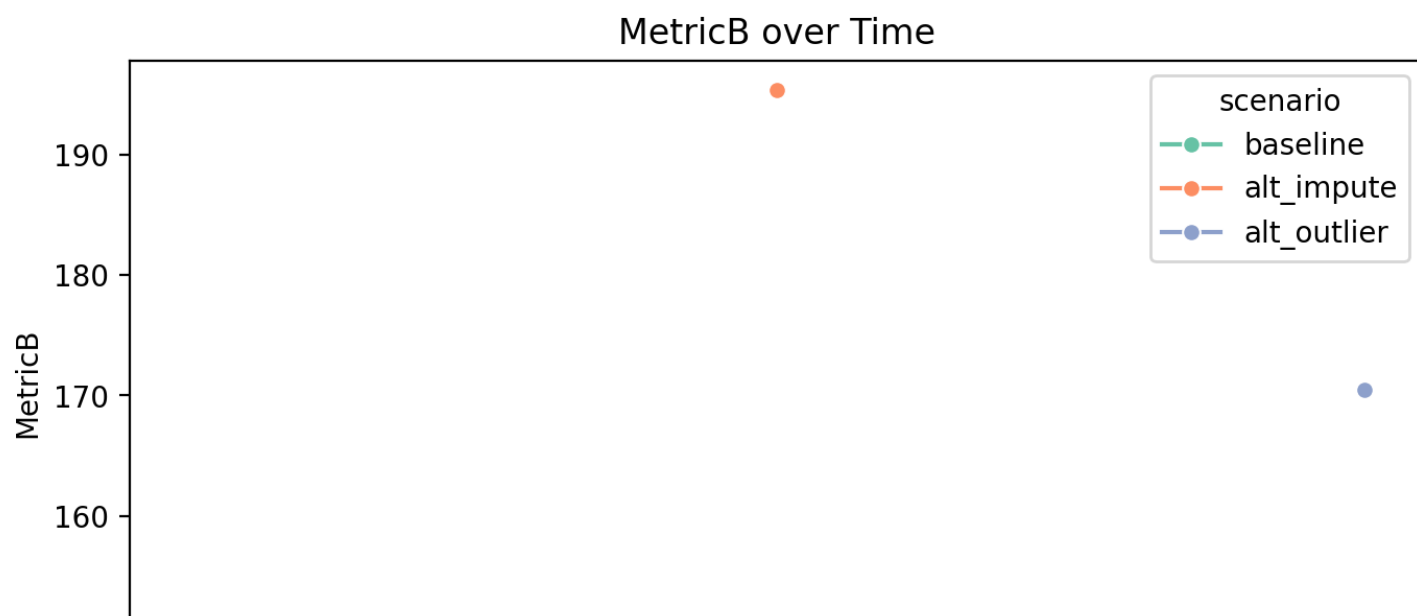
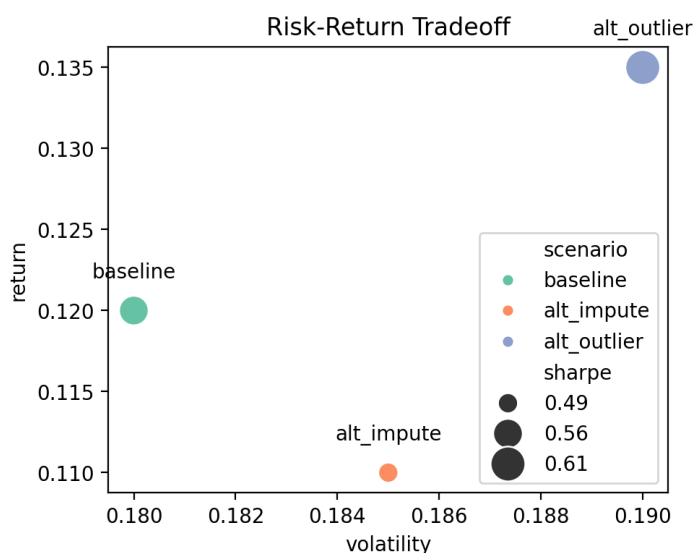
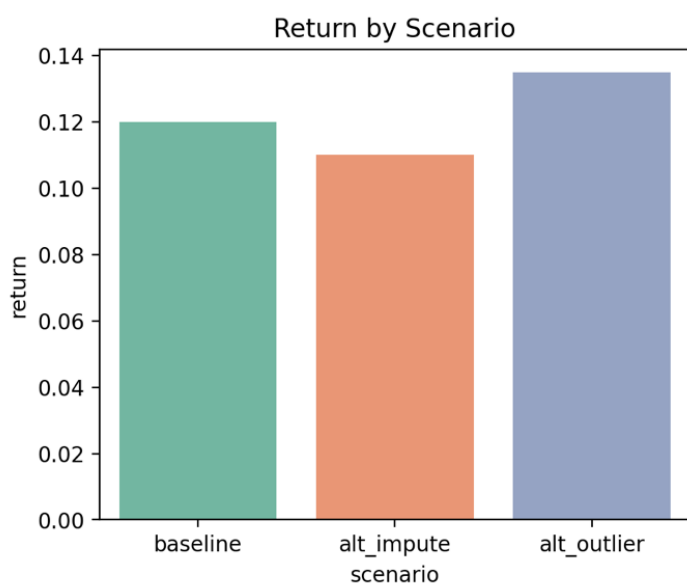


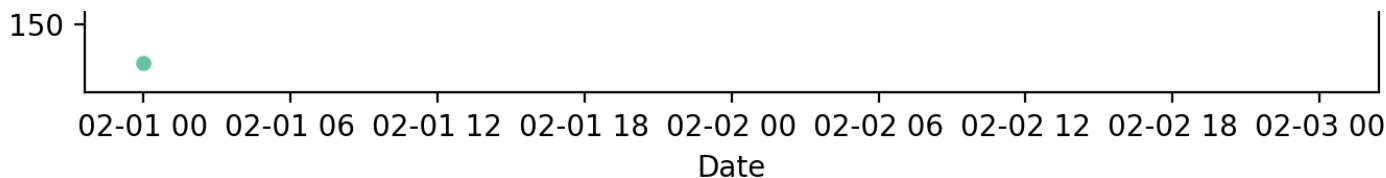
Scenario Analysis Dashboard

Executive Summary

- Baseline delivers a balanced profile (Sharpe ~0.56).
- Alt-impute lowers risk-adjusted return (Sharpe ~0.49).
- Alt-outlier shows strongest Sharpe (0.61) but with higher volatility.

Visualizations





Assumptions & Risks

- **Baseline** assumes median imputation of missing data.
- **Alt-impute** assumes mean imputation, which can distort if outliers exist.
- **Alt-outlier** removes $>3\sigma$ outliers, improving Sharpe but risking data loss.

Risks: Overfitting scenario choice to historical noise, limited sample size, and assumption-driven bias.

Sensitivity Analysis

Choose scenario to stress-test

alt_impute



Comparing **Baseline** vs **alt_impute**:

- Return: 0.120 \rightarrow 0.110
- Volatility: 0.180 \rightarrow 0.185
- Sharpe: 0.560 \rightarrow 0.490

Decision Implications

- If you prefer **stability**, baseline is safest.
- If you want **higher Sharpe**, outlier-adjusted scenario looks best.
- Mean imputation underperforms and may be less reliable.



Recommendation: Consider using outlier-adjusted data but validate robustness with larger samples.

