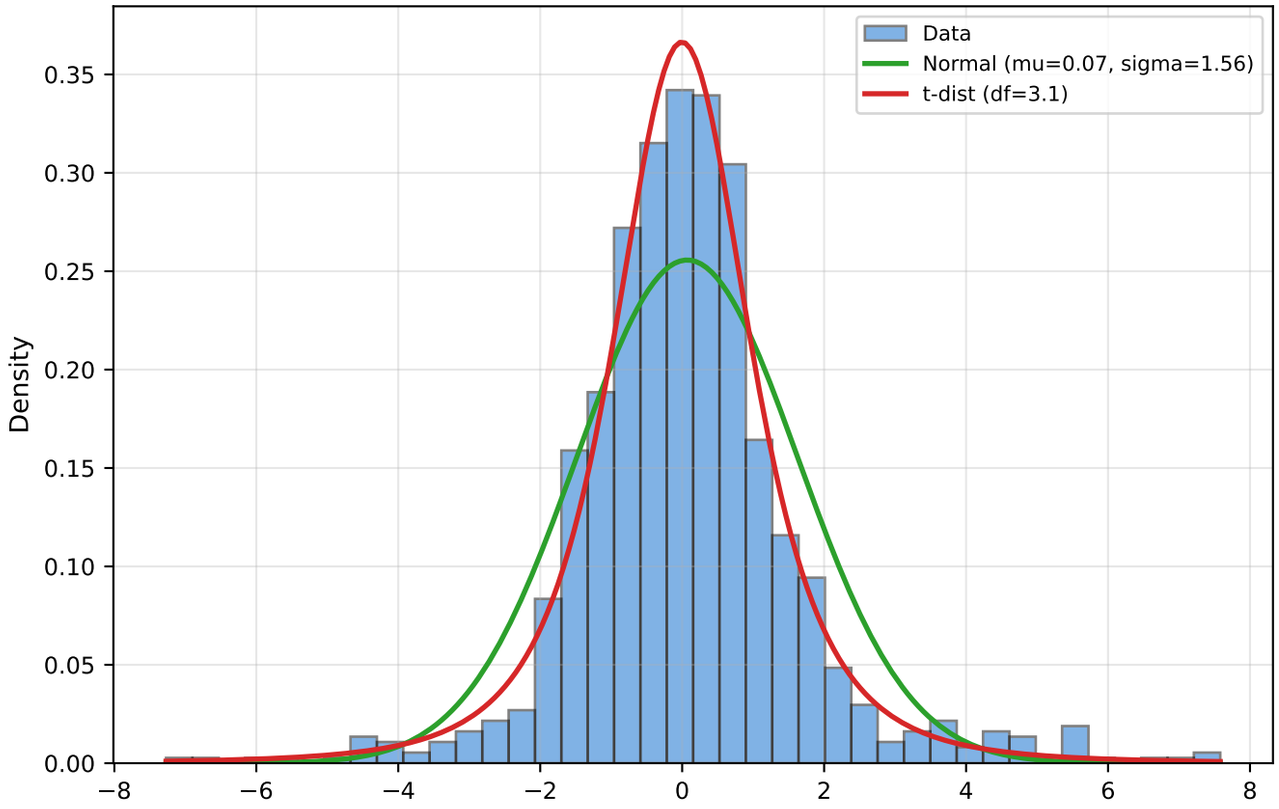
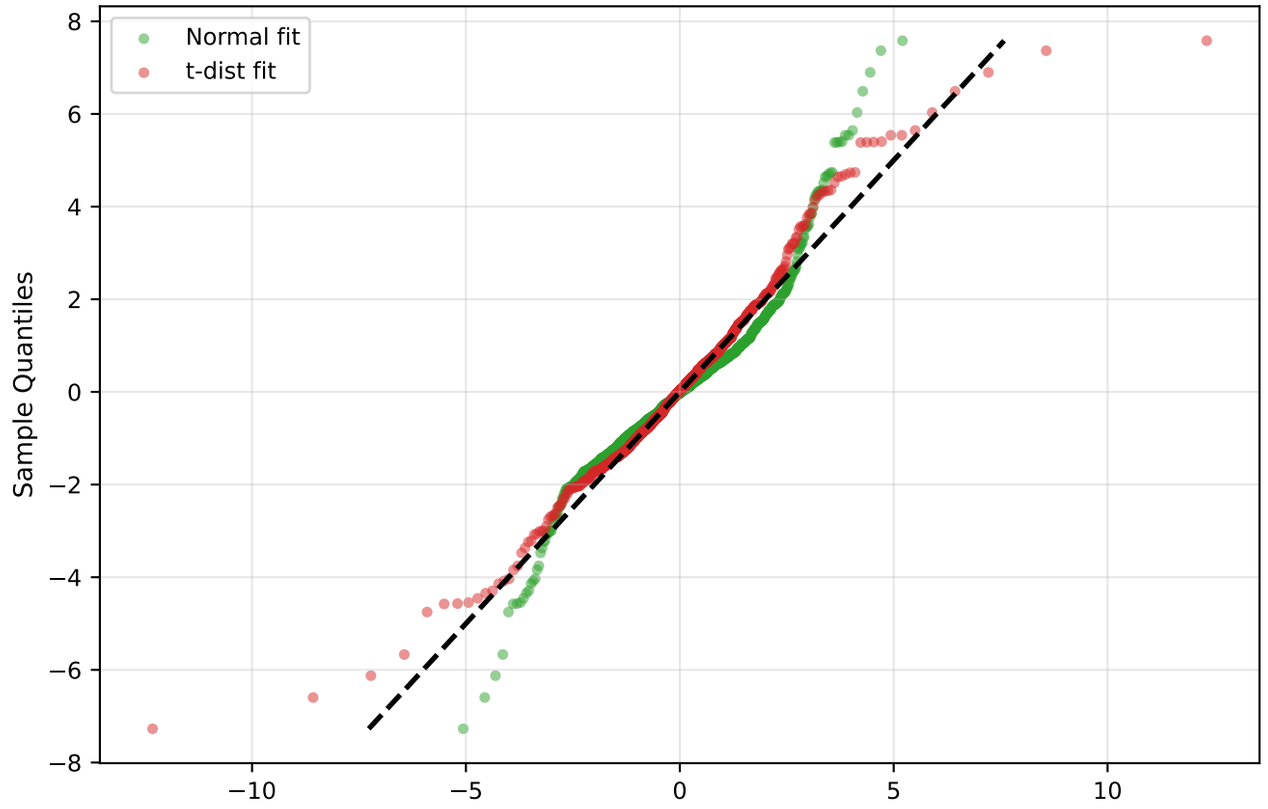
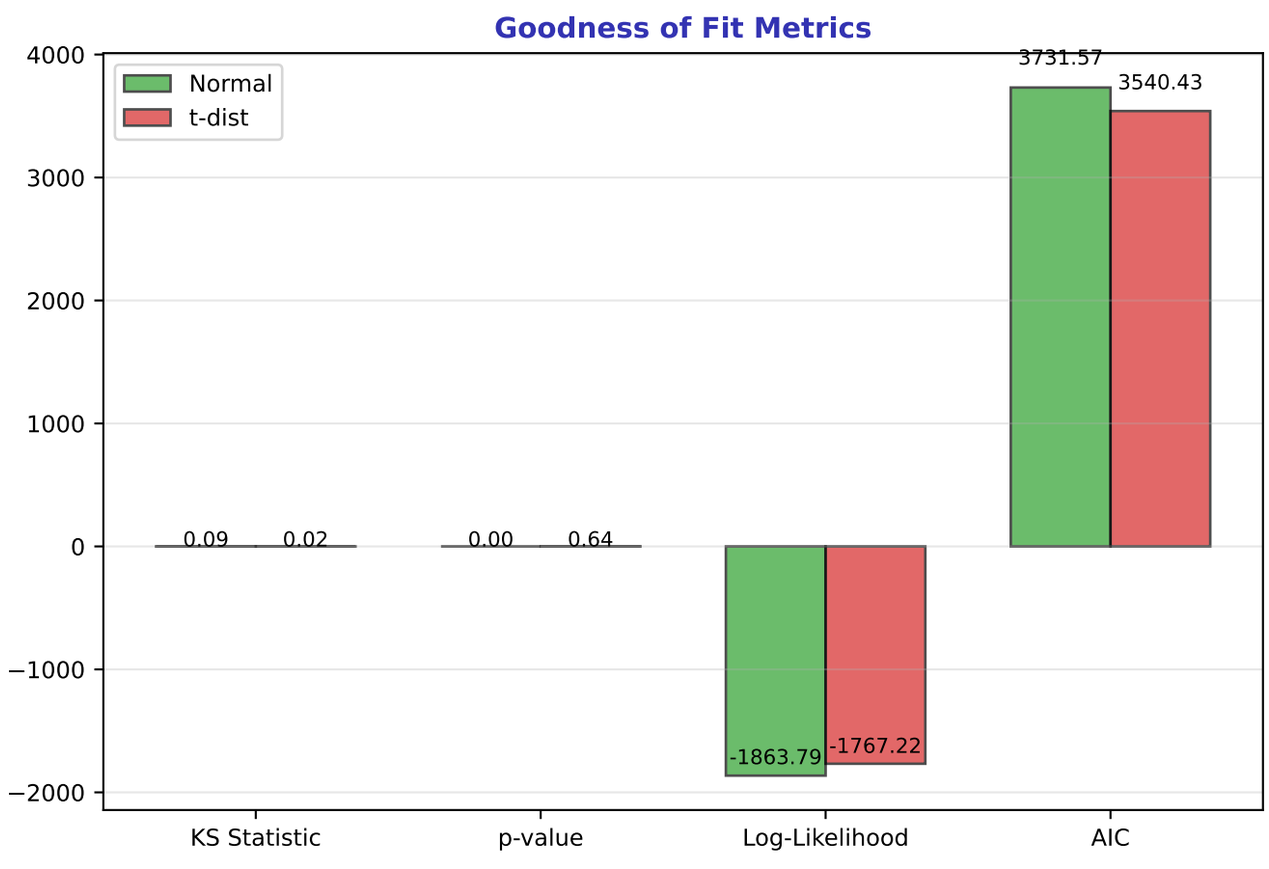
Distribution Fitting







Distribution Fitting Process

1. Visualize `ax.hist(data, density=True)`

Look at shape: symmetric? skewed? fat tails?

2. Fit candidates `mu, sigma = stats.norm.fit(data)`

Estimate parameters using MLE

3. Compare fits `stats.kstest(data, "norm")`

KS test, AIC, visual QQ plots

4. Validate `Check tail behavior`

Are extreme events captured?

Best fit: t-distribution (lower AIC = better)