Feature Distribution & Outlier Detection

Assessing Normality and Identifying Anomalies

Histogram

Q-Q Plot

Box Plot

🔍 Key Insights

- Reveals skewness & modality
- Identifies outliers & quartiles
- Q-Q: diagonal = normal

Statistical Tests

Shapiro-Wilk

Anderson-Darling

⚖️ Decision

Errors   Remove
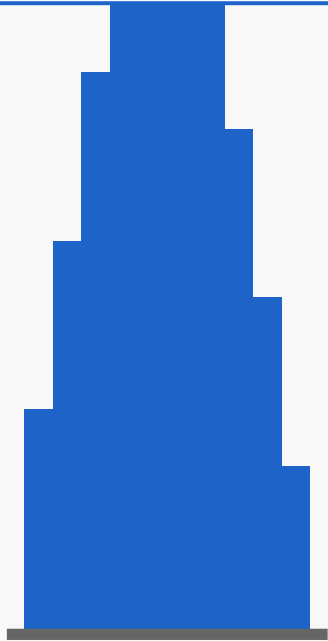
Extreme **Keep/Investigate**
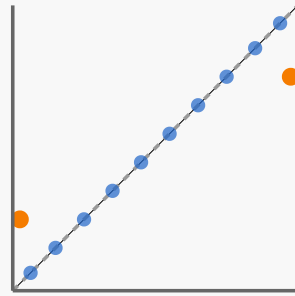
Outlier Detection Methods

IQR Method	Z-Score	Isolation Forest

Shows distribution shape

Tests normality assumption

Highlights outliers & IQR