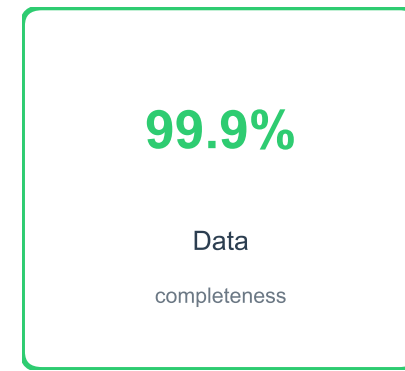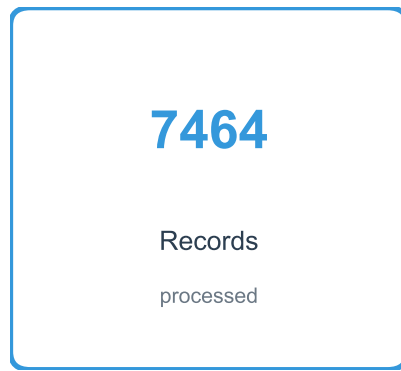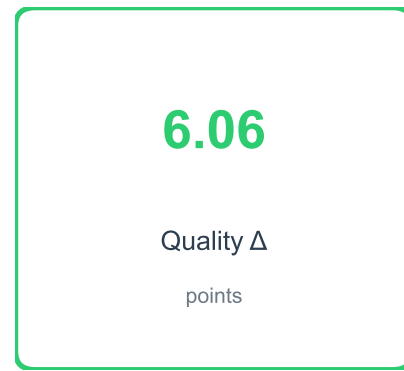# RTGS DATA INTELLIGENCE DASHBOARD

Executive Analytics Overview | Real-Time Gross Settlement System

75.8
QUALITY
SCORE

6.06	7464	17	99.9%
Quality Δ	Records	Features	Data
points	processed	engineered	completeness
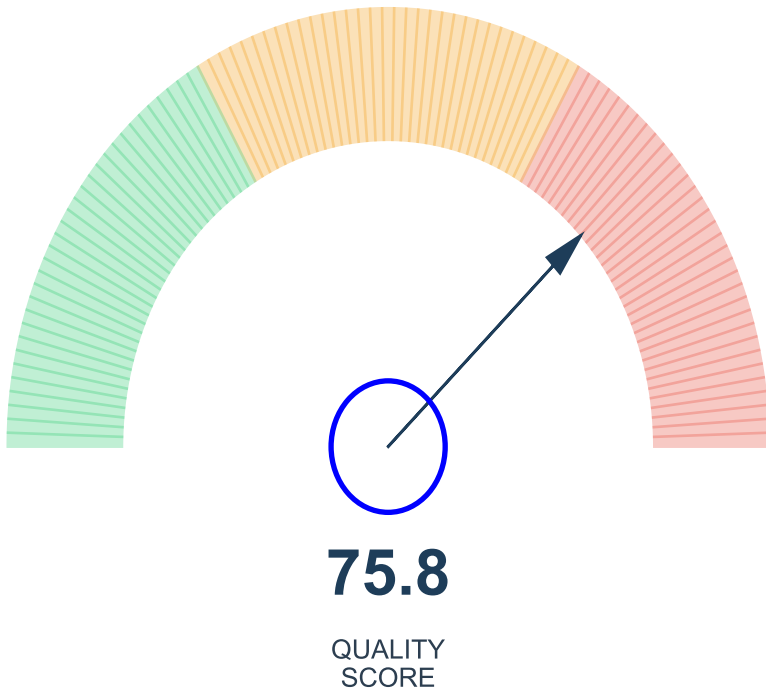
Data Processing Pipeline

Raw Data → Cleaned → Transformed → Validated → Production

Quality Improvement Trajectory

Initial	Cleaning	Transformation	Validation	Final
69.7	71.6	73.4	74.9	75.8
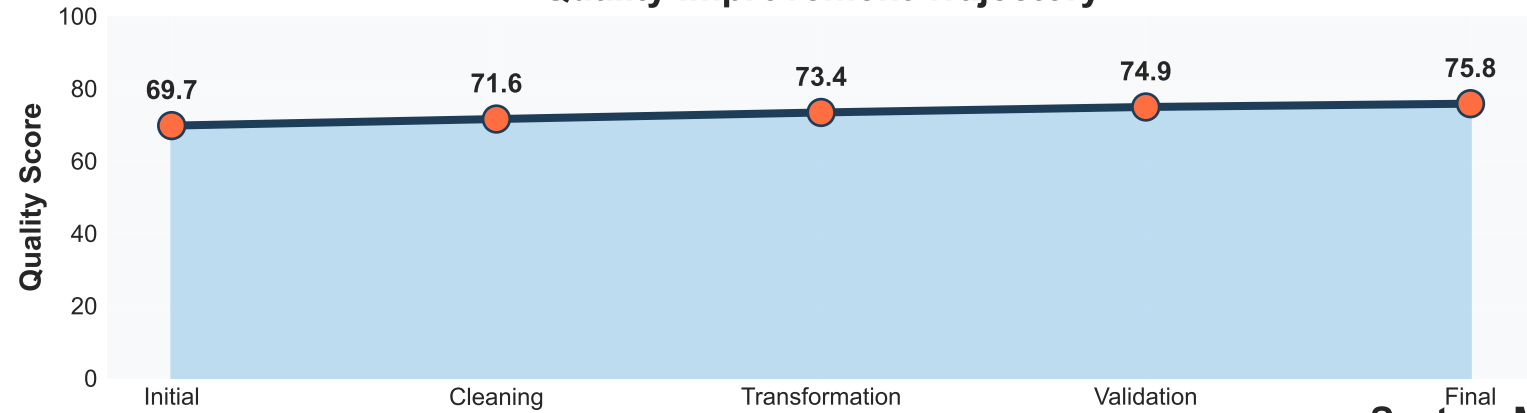
Dataset Profile Comparison

Legend: Original, Processed

Metrics: Rows, Columns, Numeric, Categorical, Complete %

Risk Assessment Matrix

- Scalability
- Completeness
- Data Quality
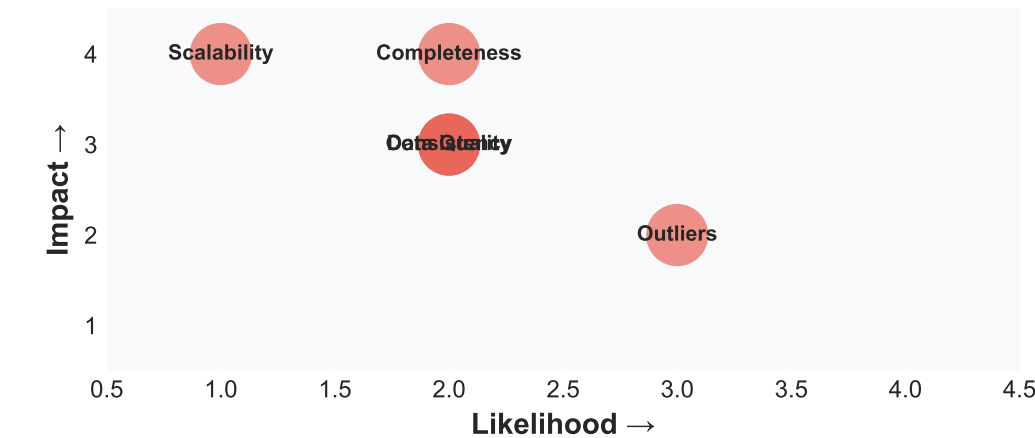- Outliers

Impact ↑ / Likelihood →
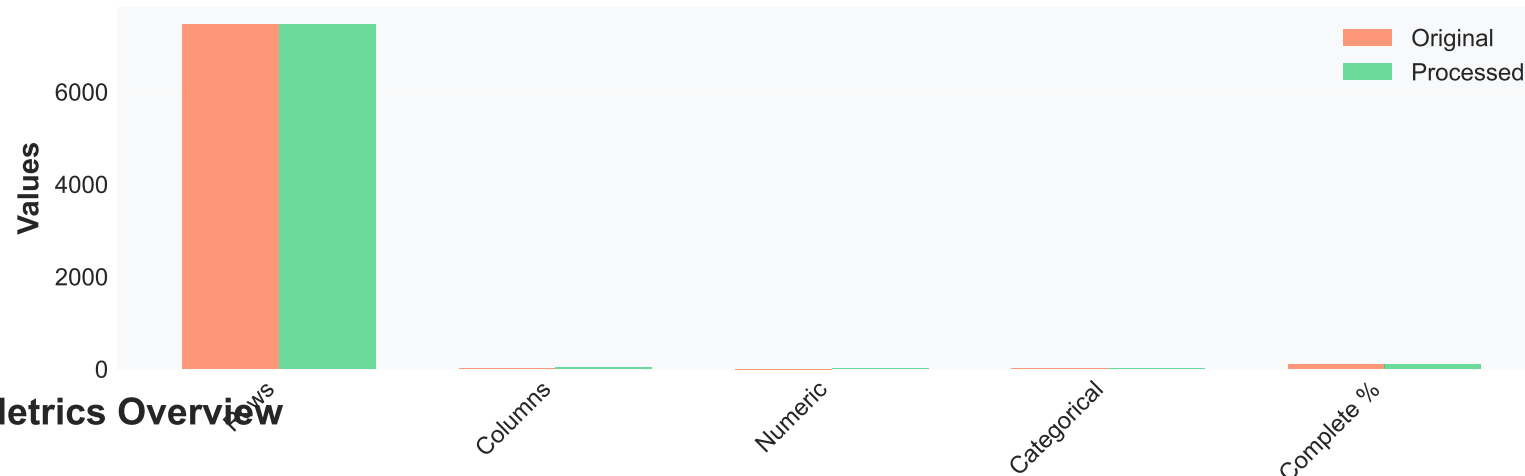
System Metrics Overview

DATASET METRICS SUMMARY

Records Processed: 7,464
Total Features: 29
Numeric Features: 18
Data Completeness: 99.9%

Quality Status: Production Ready
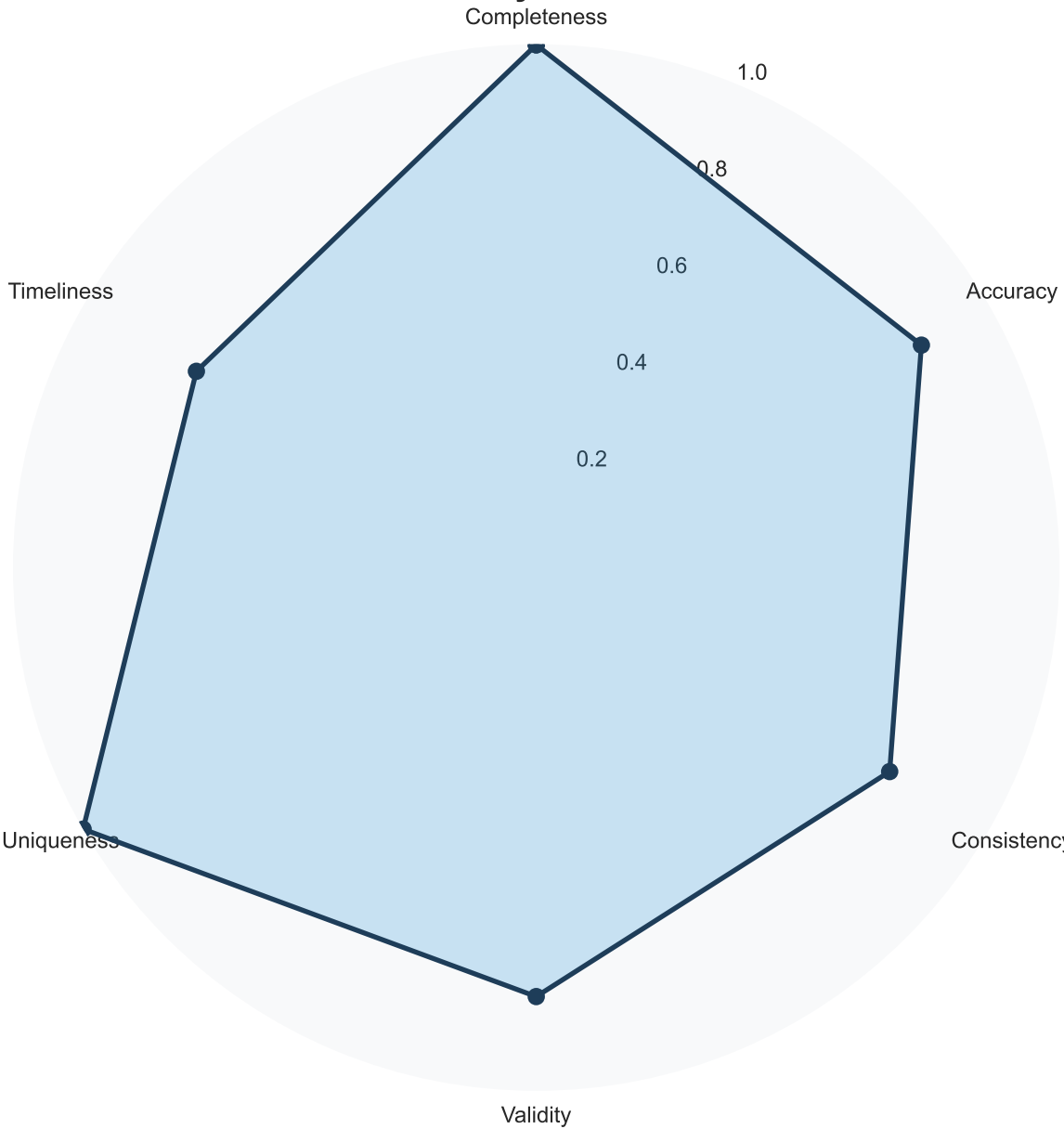ML Readiness: 95%

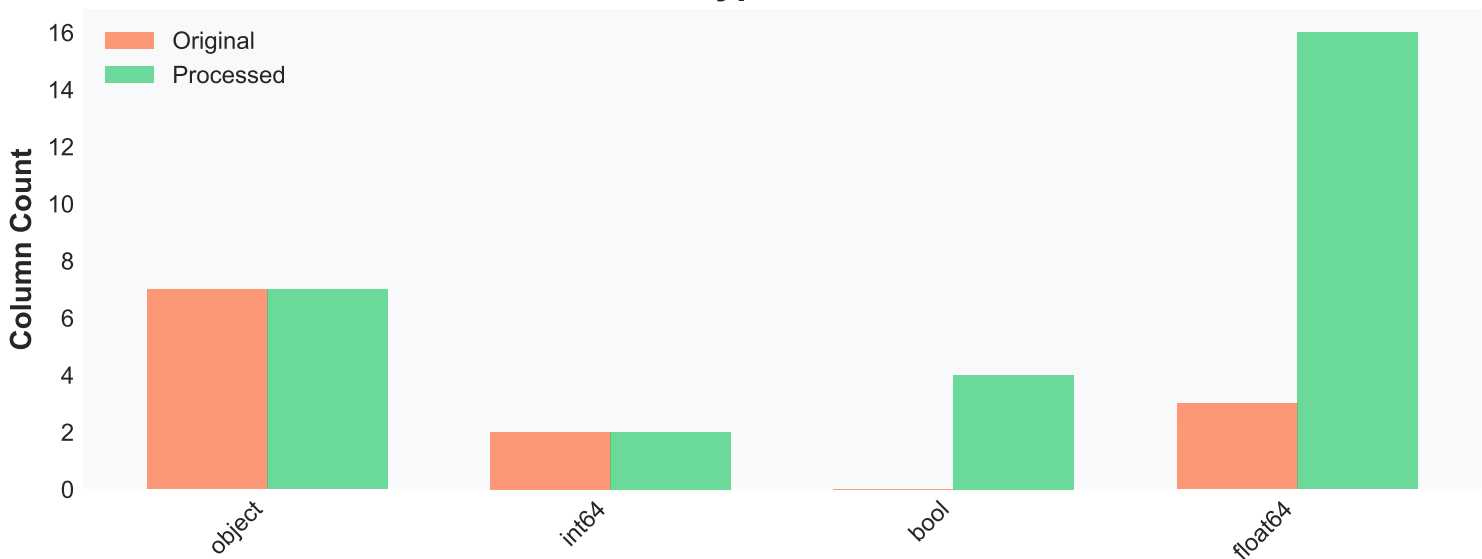## RECOMMENDED NEXT ACTIONS

1. Deploy to production environment
2. Set up monitoring dashboards
3. Configure automated alerts
4. Schedule regular quality audits
5. Document transformation rules
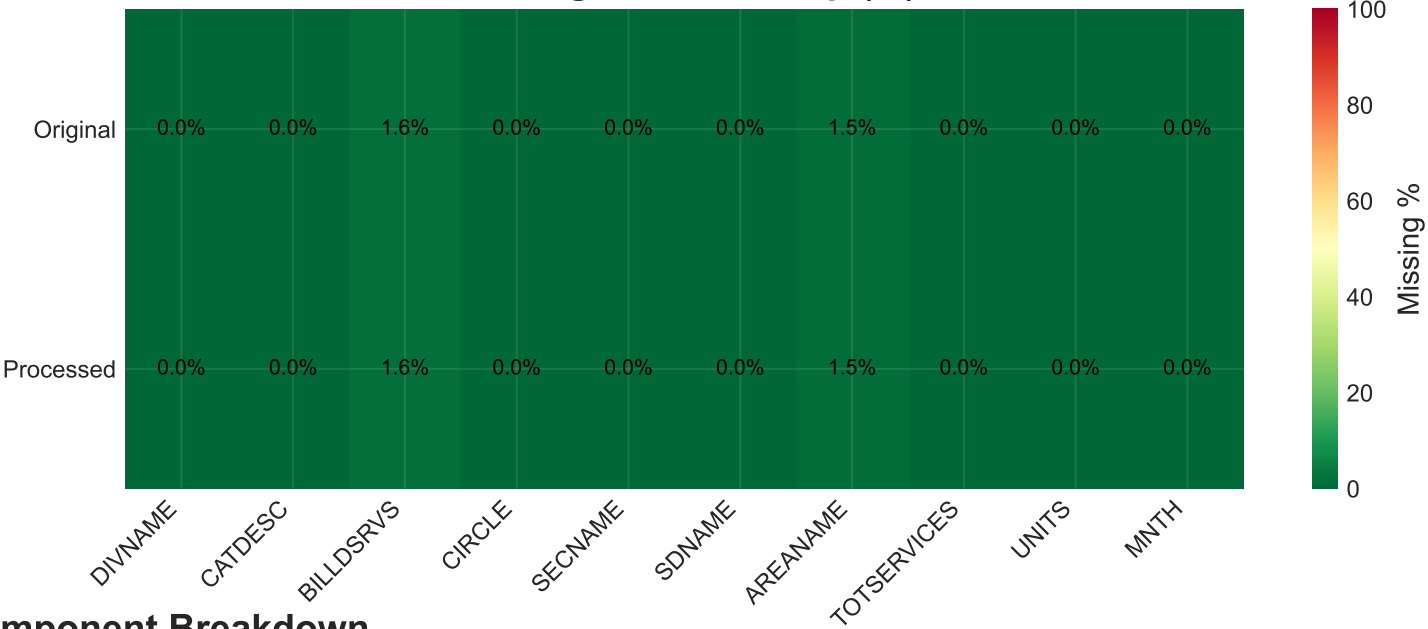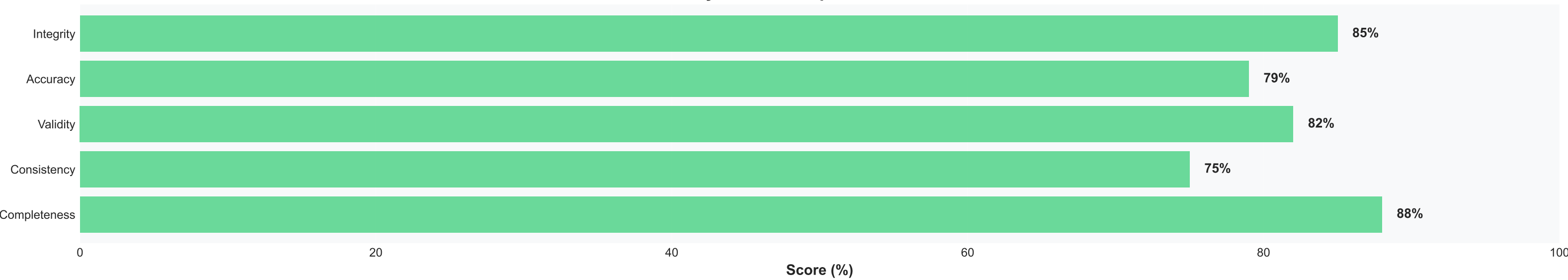
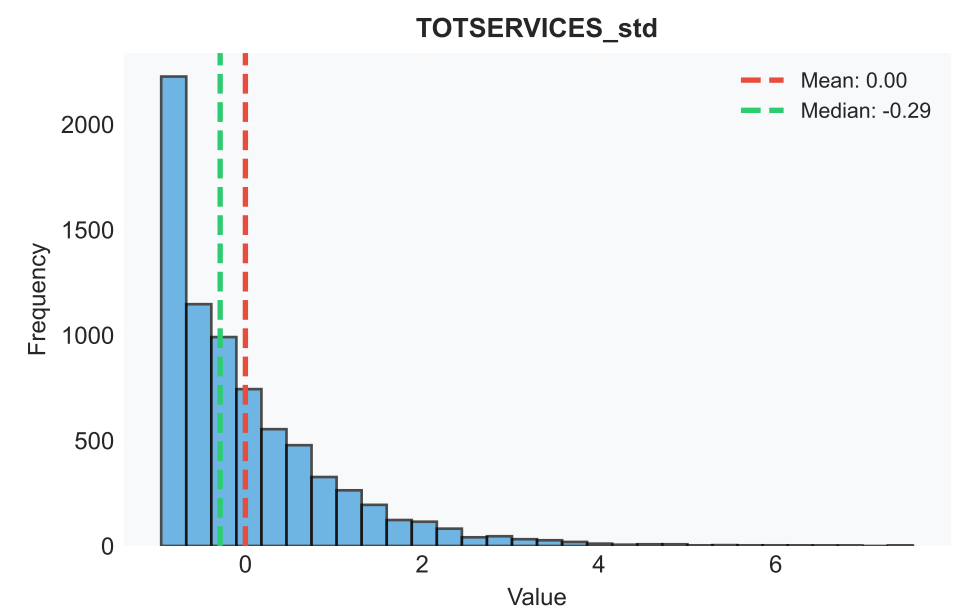# DATA QUALITY SCORECARD

Data Quality Dimensions

Radar chart showing Completeness, Accuracy, Consistency, Validity, Uniqueness, Timeliness dimensions.

Data Type Evolution

Bar chart comparing Original and Processed column counts across data types: object, int64, bool, float64.

Missing Data Heatmap (%)

	DIVNAME	CATDESC	BILLDSRVS	CIRCLE	SECNAME	SDNAME	AREANAME	TOTSERVICES	UNITS	MNTH
Original	0.0%	0.0%	1.6%	0.0%	0.0%	0.0%	1.5%	0.0%	0.0%	0.0%
Processed	0.0%	0.0%	1.6%	0.0%	0.0%	0.0%	1.5%	0.0%	0.0%	0.0%

Quality Score Component Breakdown

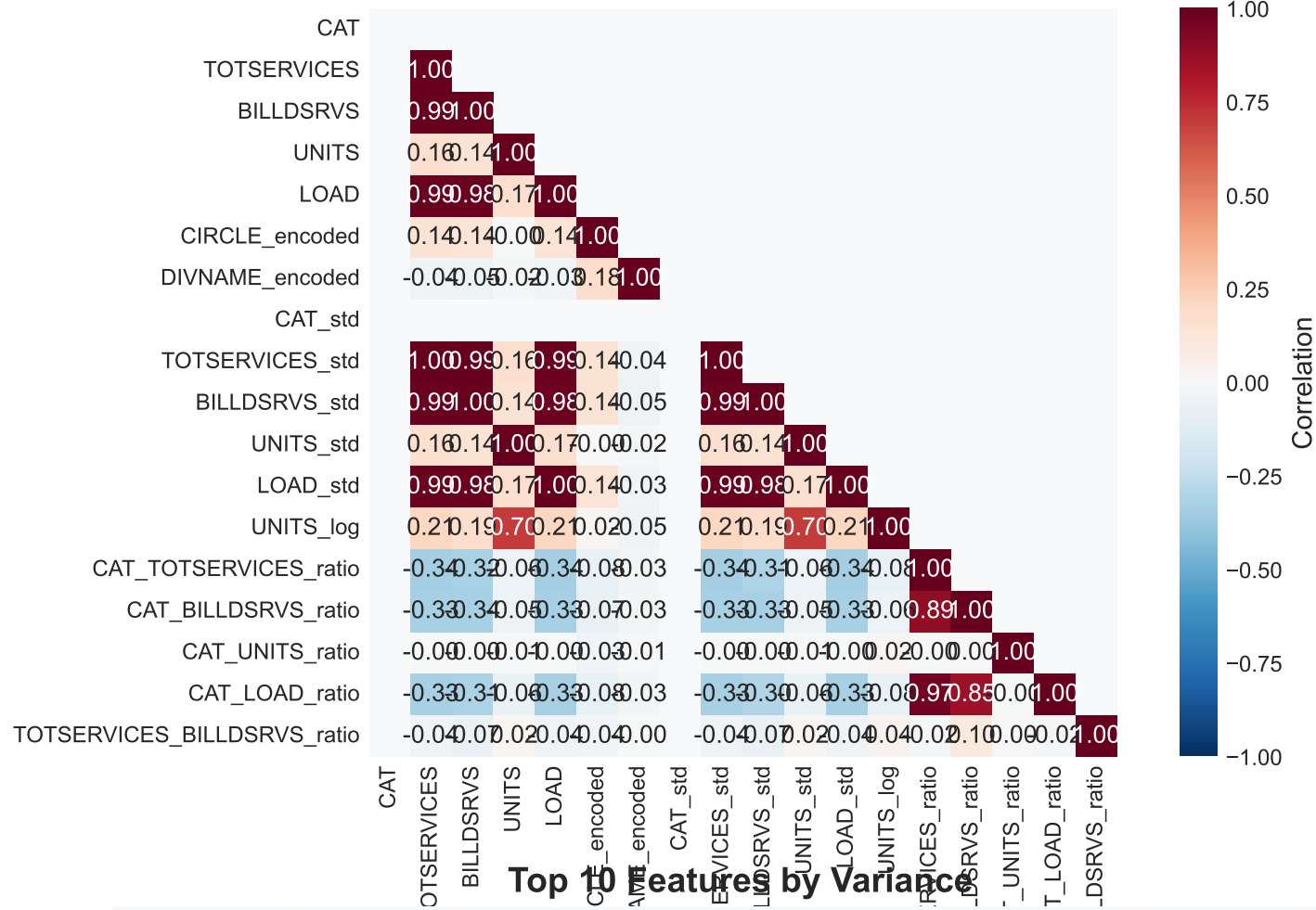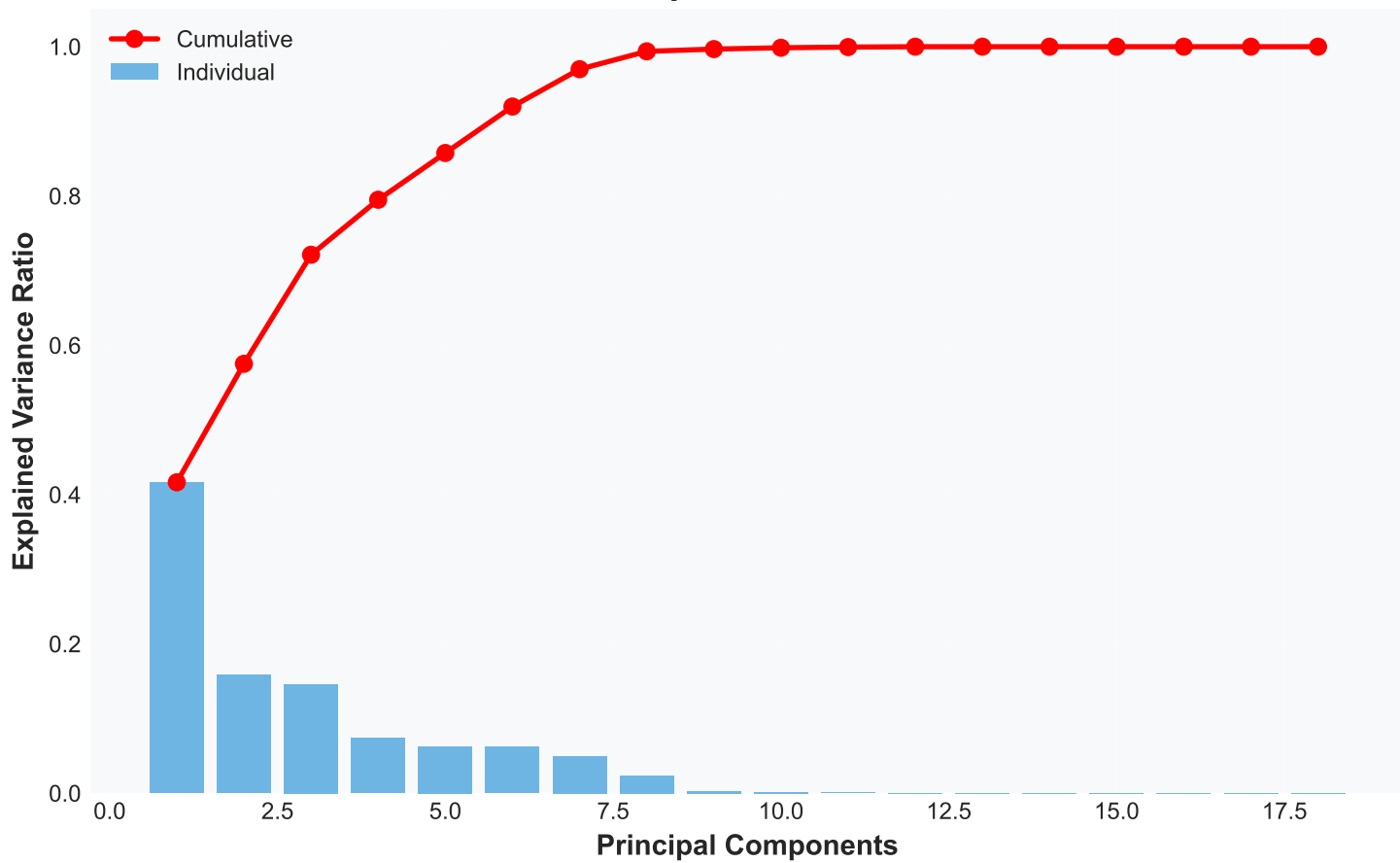| Component	Score
Integrity	85%
Accuracy	79%
Validity	82%
Consistency	75%
Completeness	88%

STATISTICAL DEEP DIVE ANALYSIS
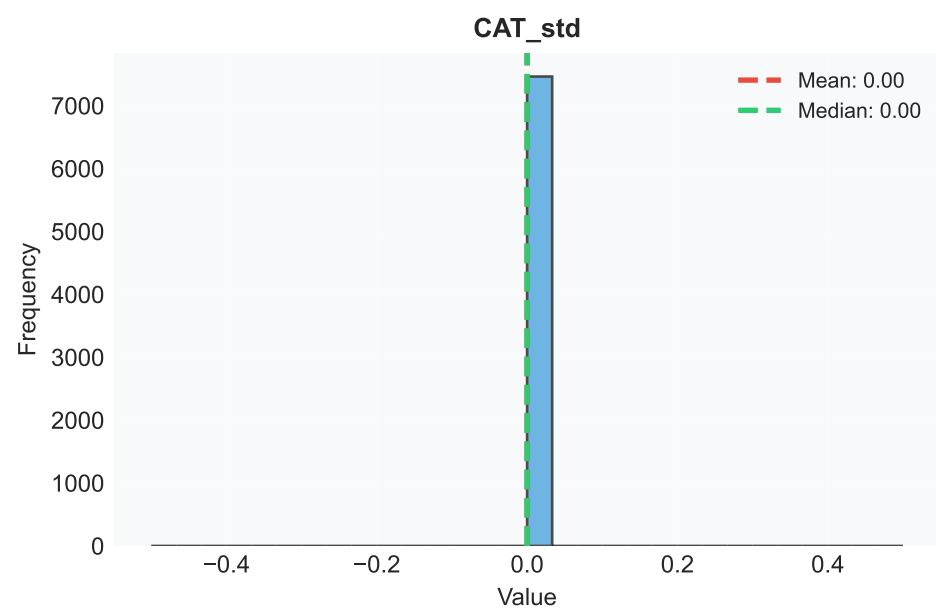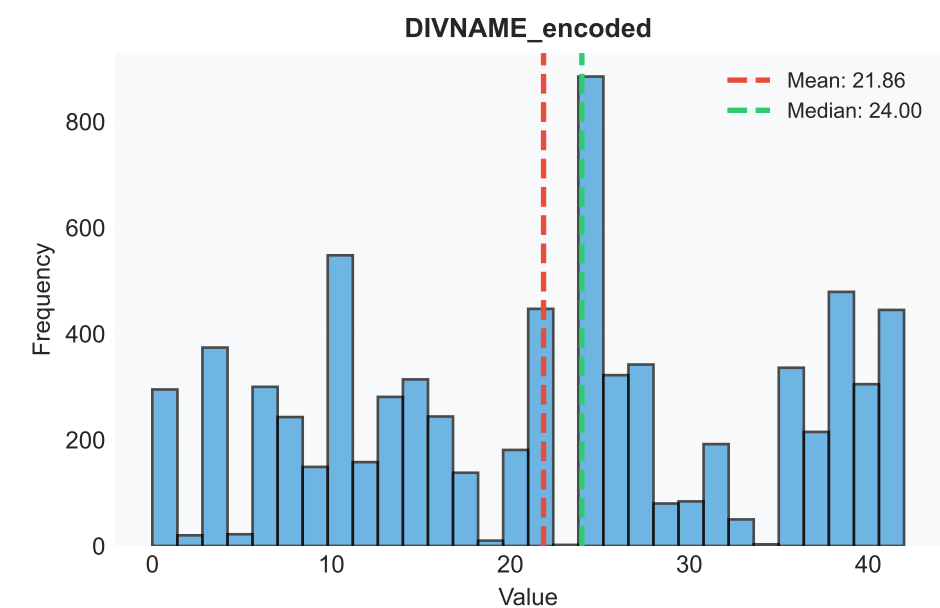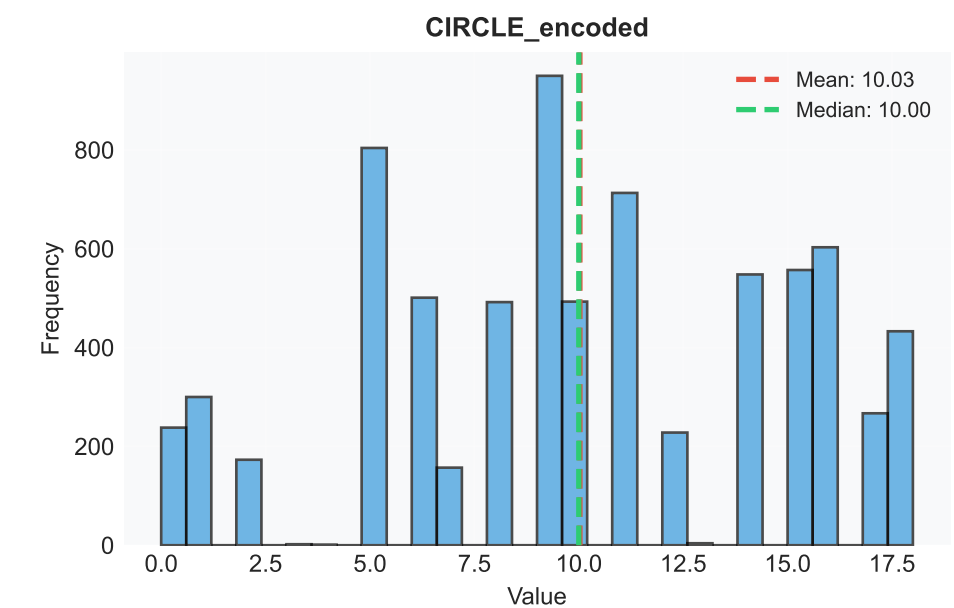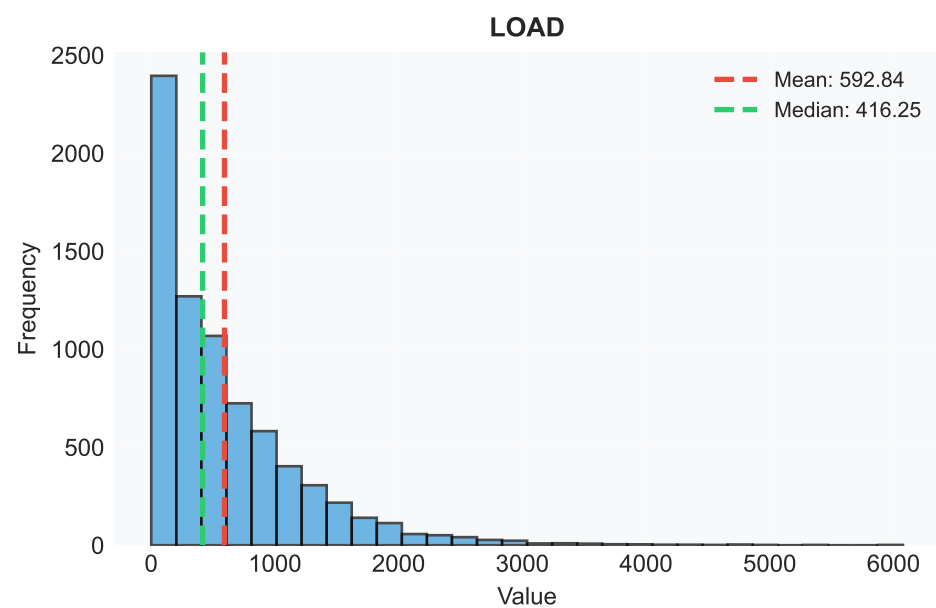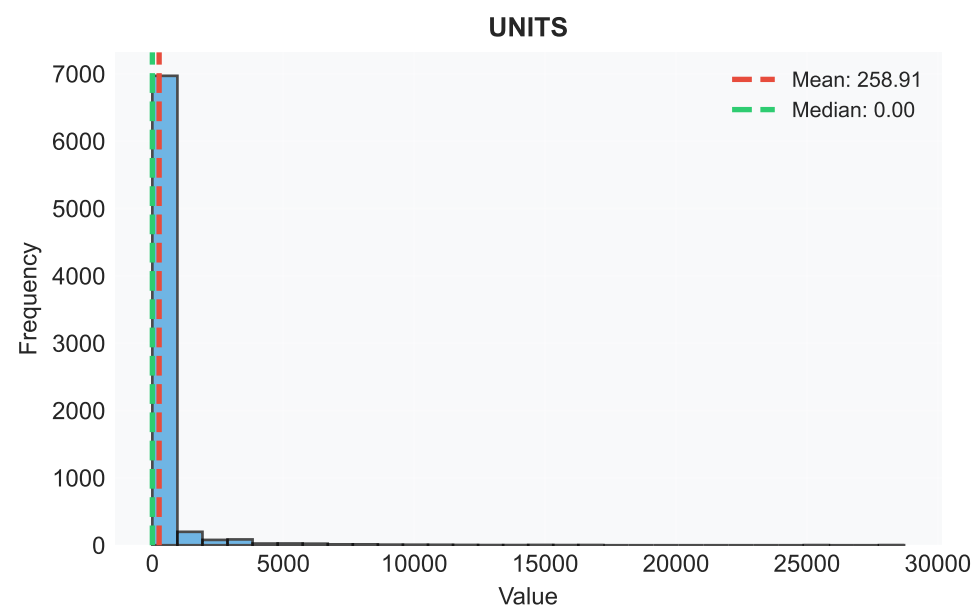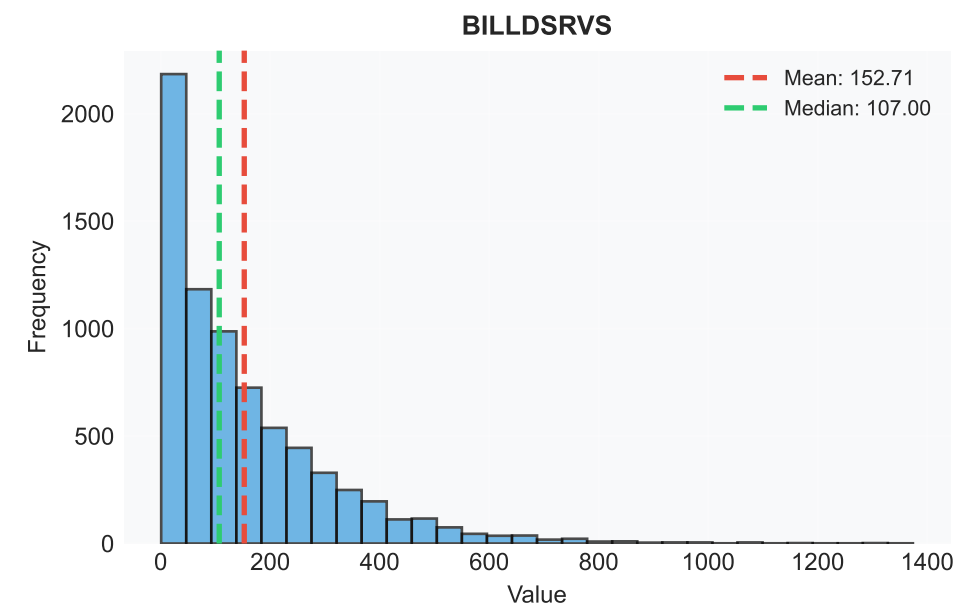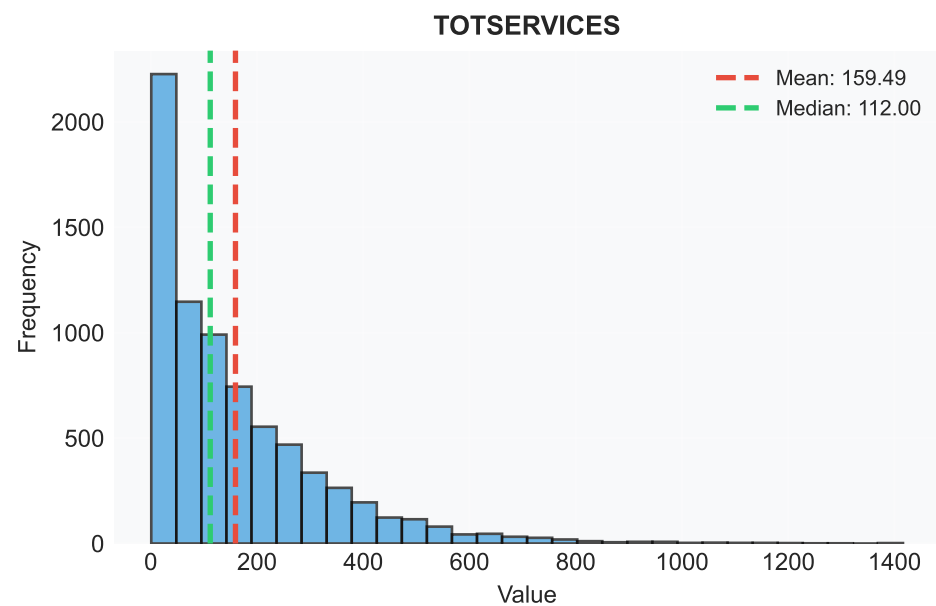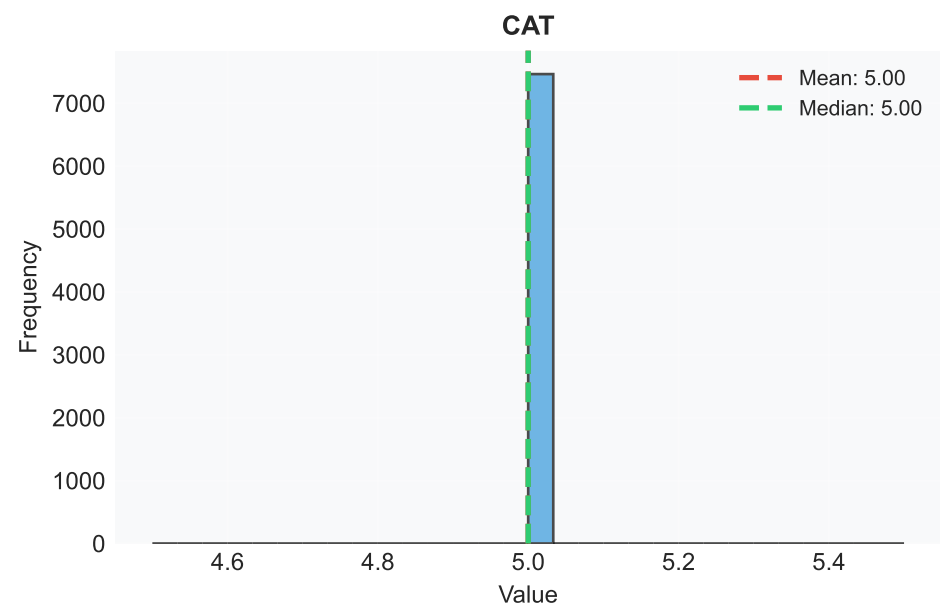
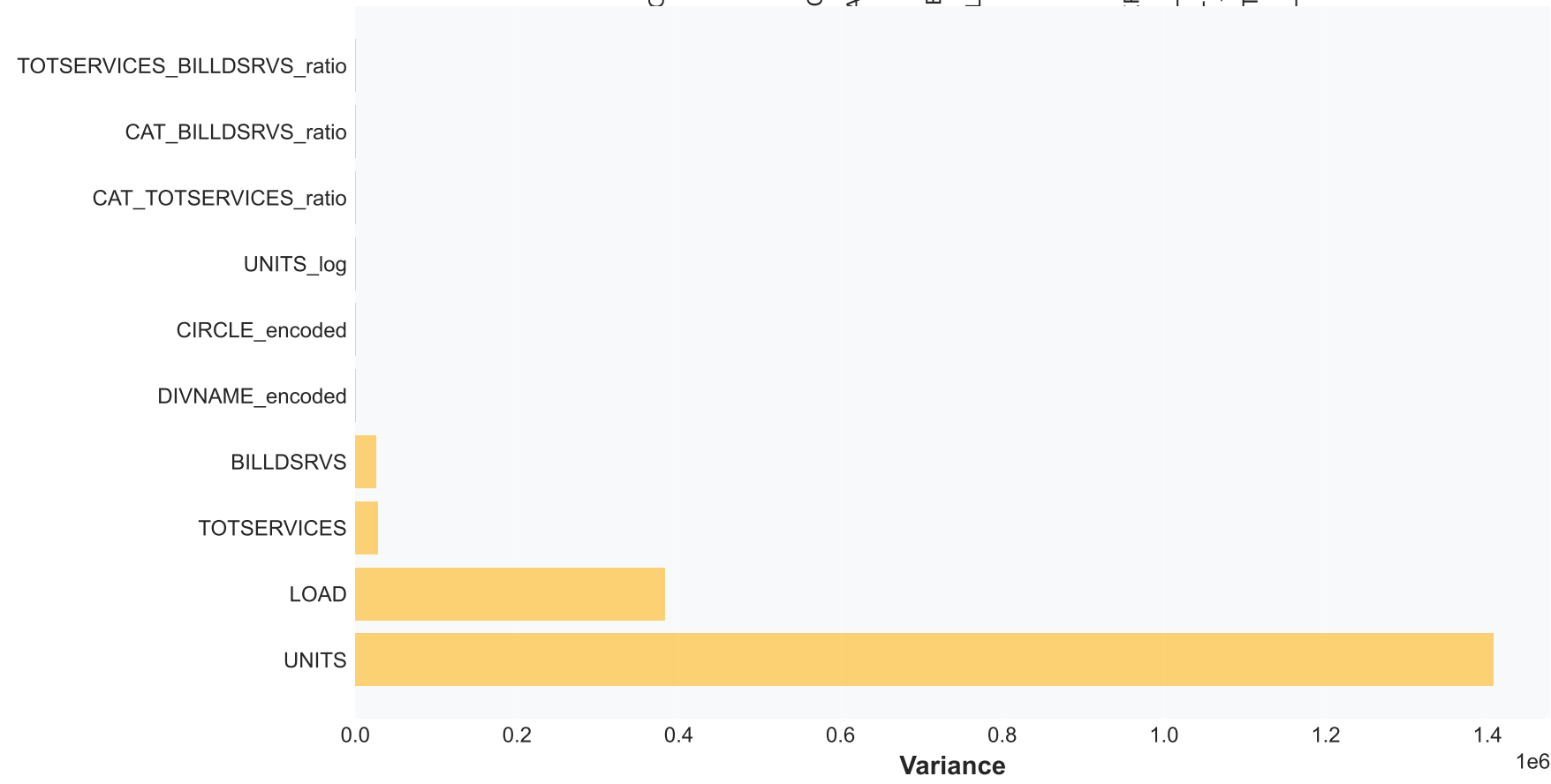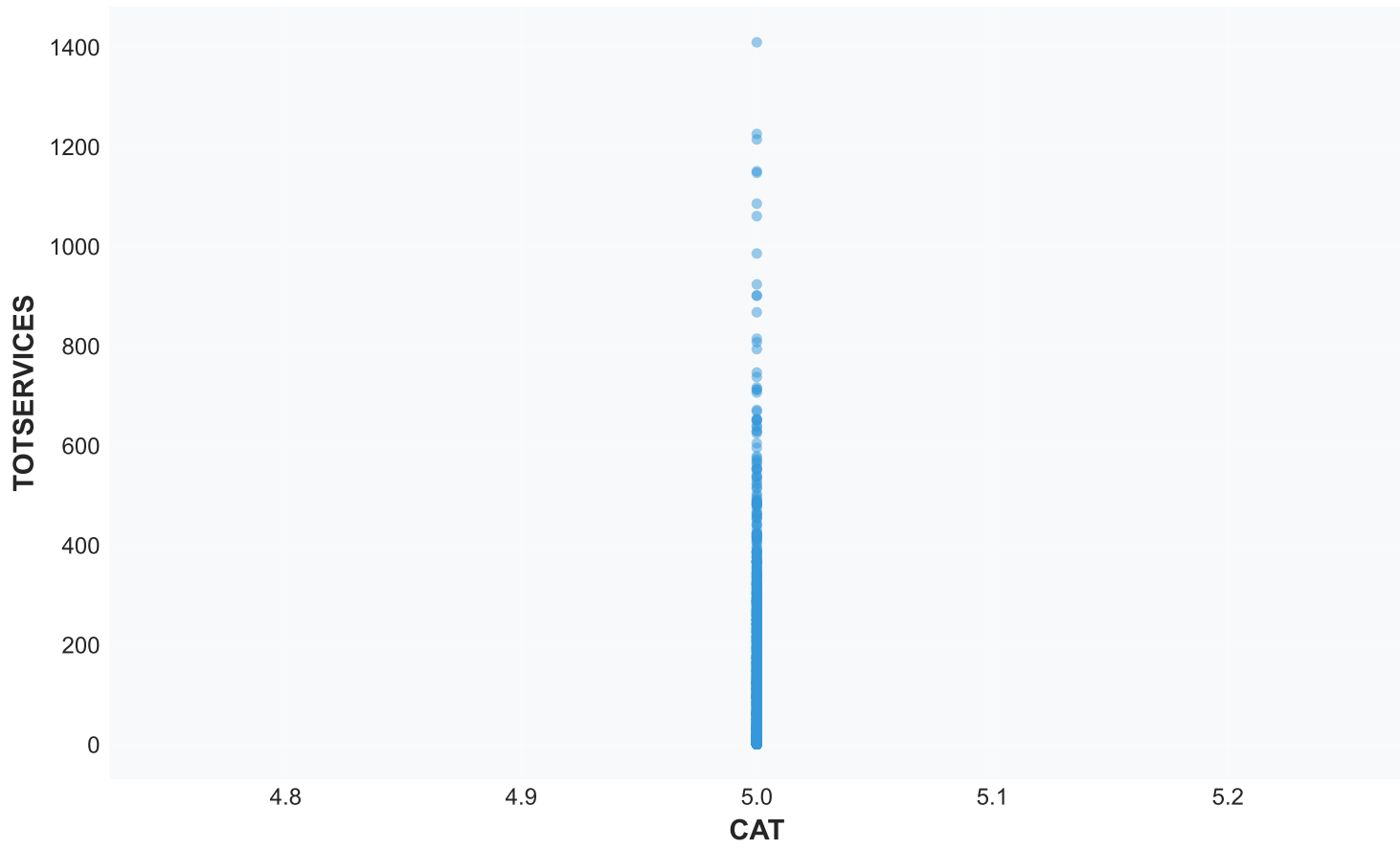# CORRELATION & PATTERN DISCOVERY

Correlation Matrix

PCA Explained Variance
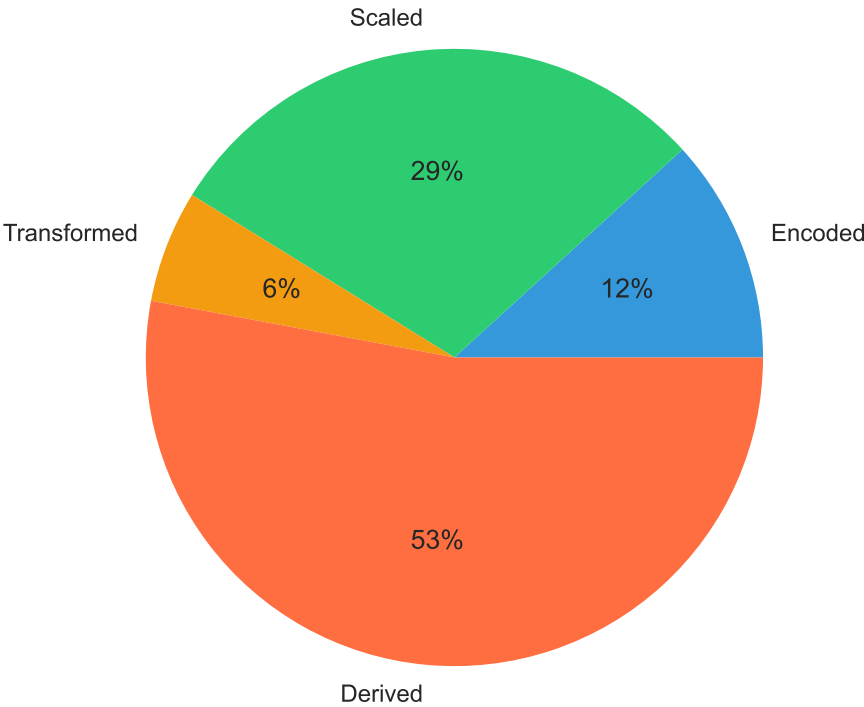

Top 10 Features by Variance

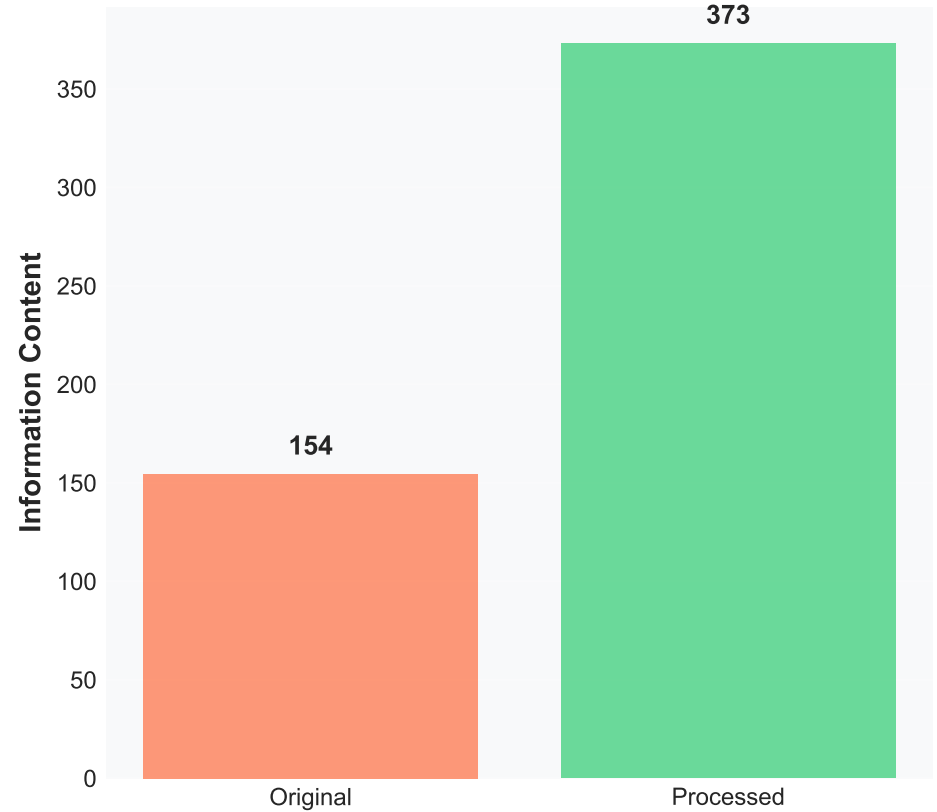## Data Distribution (Clustering Potential)

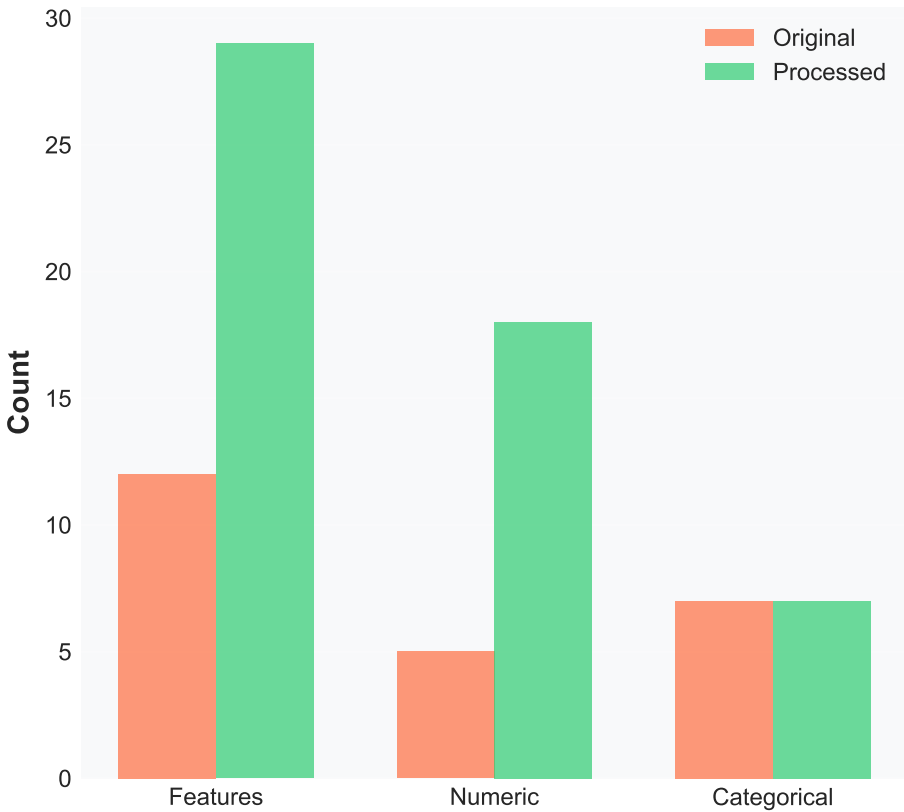# FEATURE ENGINEERING IMPACT ANALYSIS

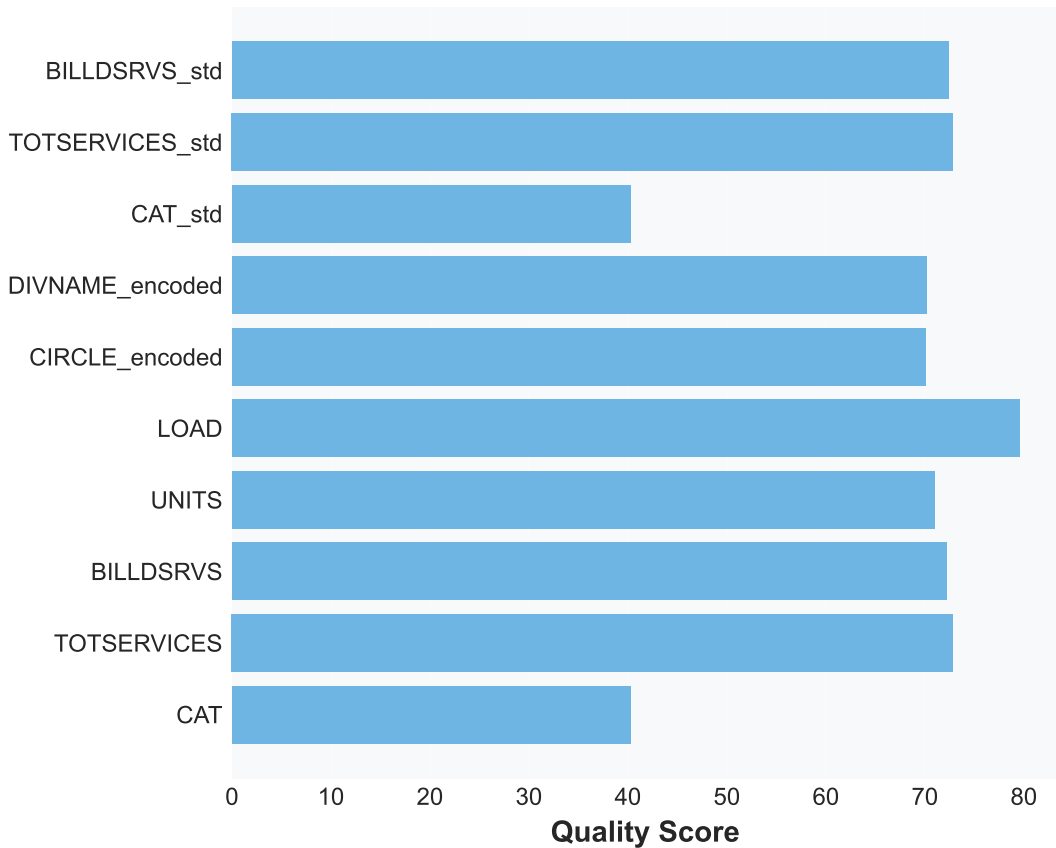## Feature Engineering Summary (17 new features)
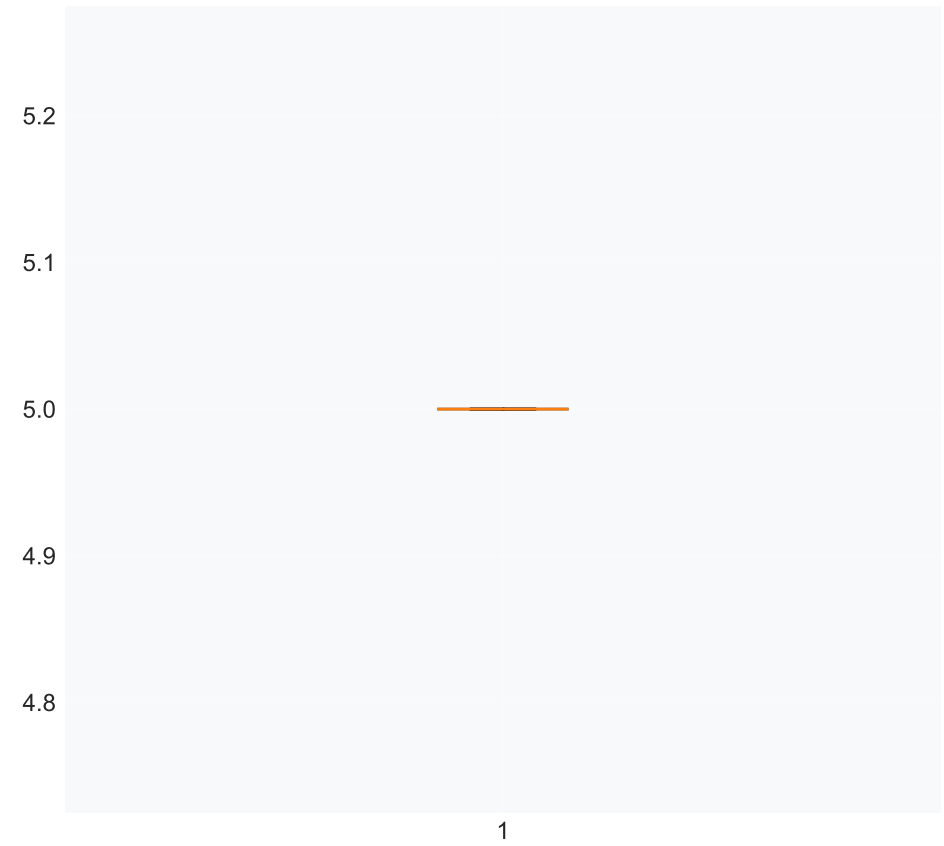

Information Gain Analysis
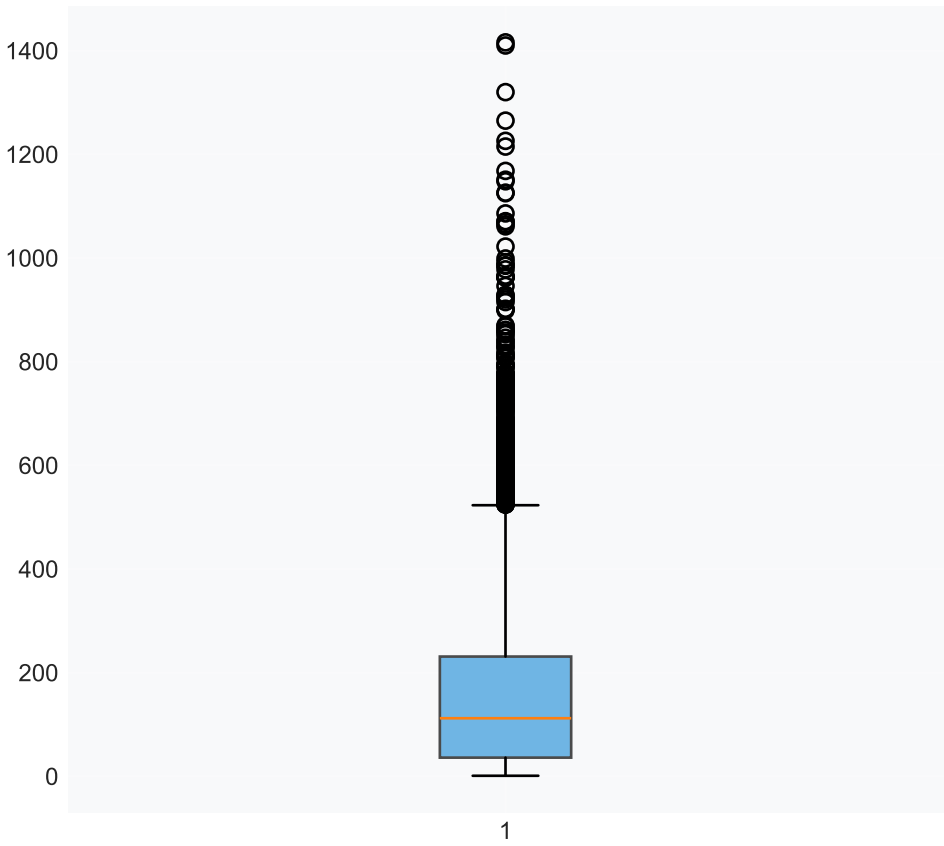
Dimensionality Changes

Feature Quality Assessment

ANOMALY DETECTION & OUTLIER ANALYSIS
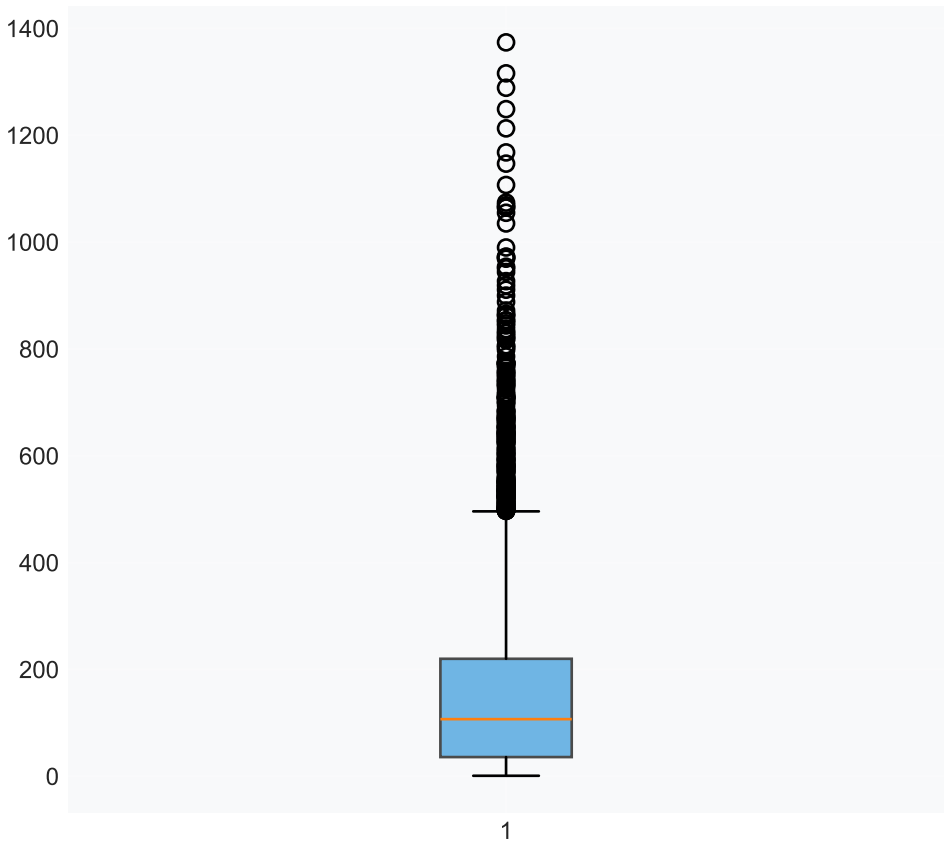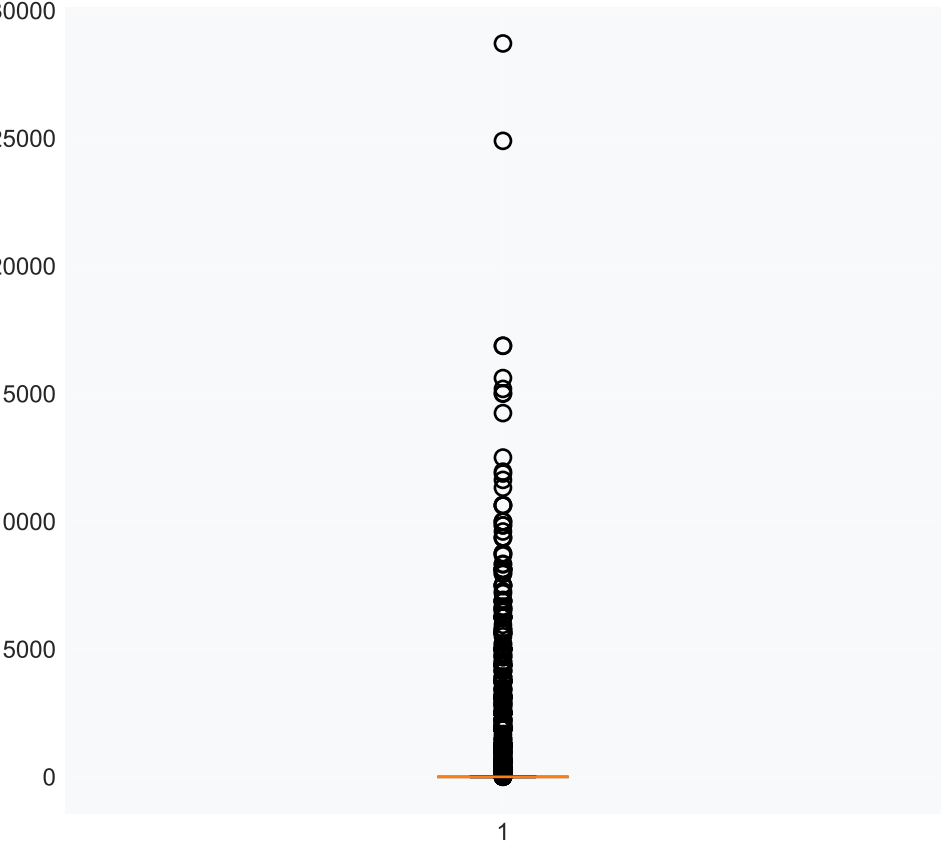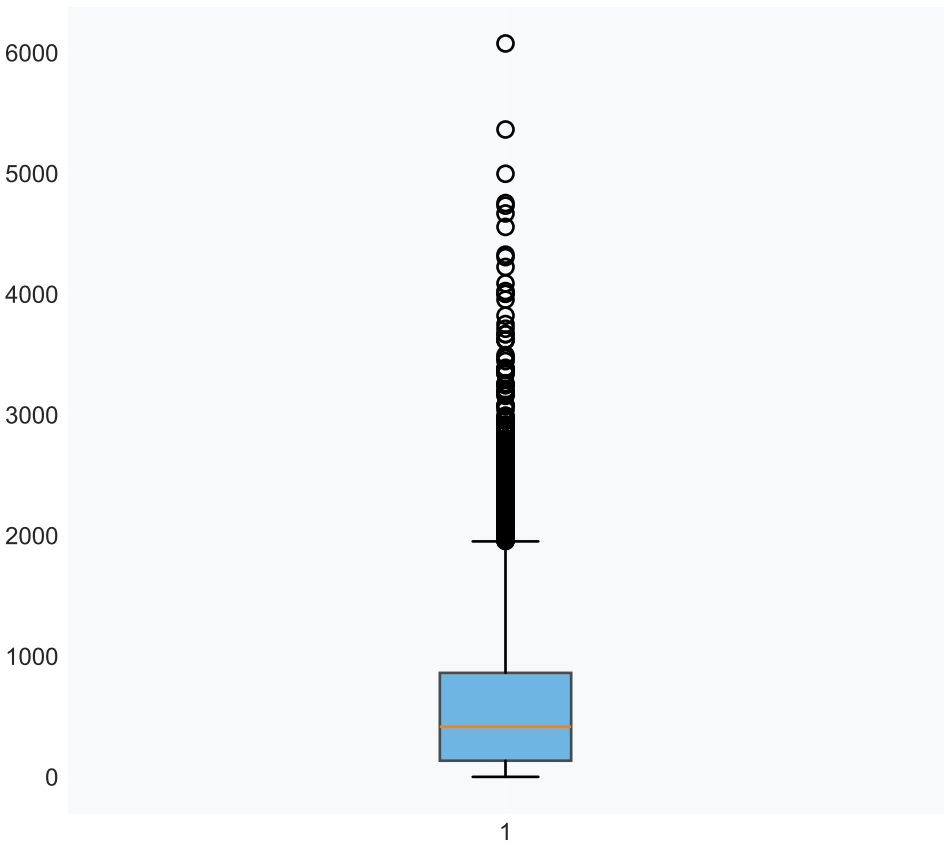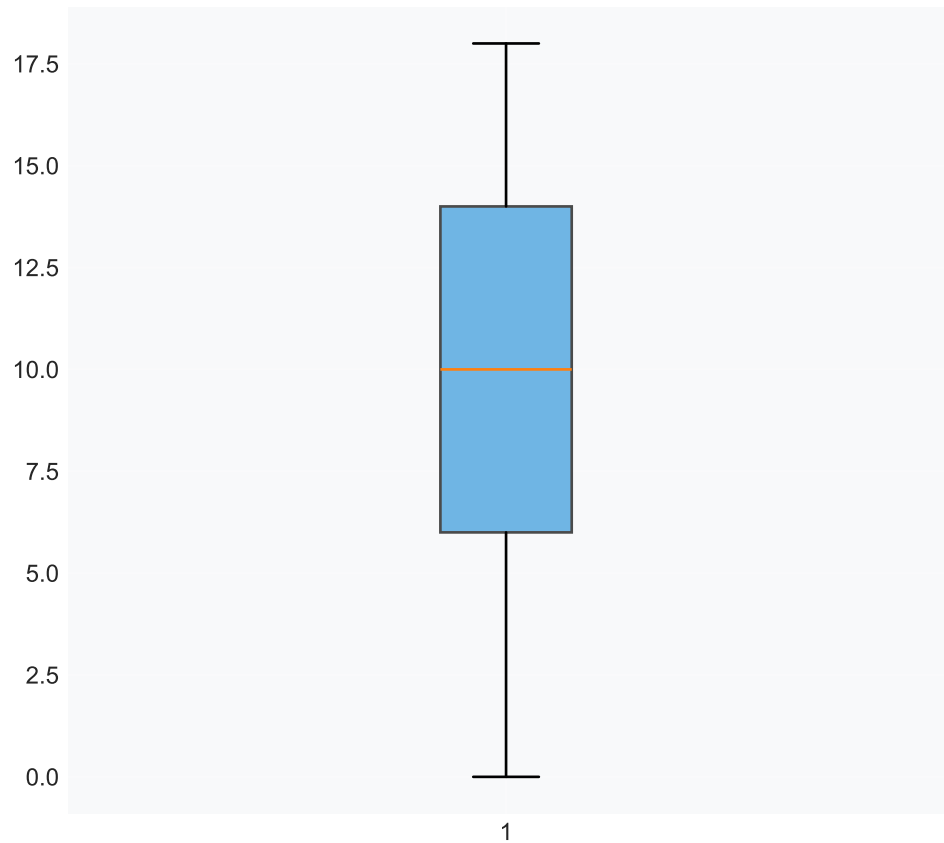
TEMPORAL PATTERNS & TRENDS

No temporal patterns detected in dataset

MACHINE LEARNING READINESS ASSESSMENT

95.0

ML
READINESS

257.4

Sample-to-Feature Ratio

Status: Good

Feature Type Distribution

Categorical
(7)

28.0%

72.0%

Numeric
(18)
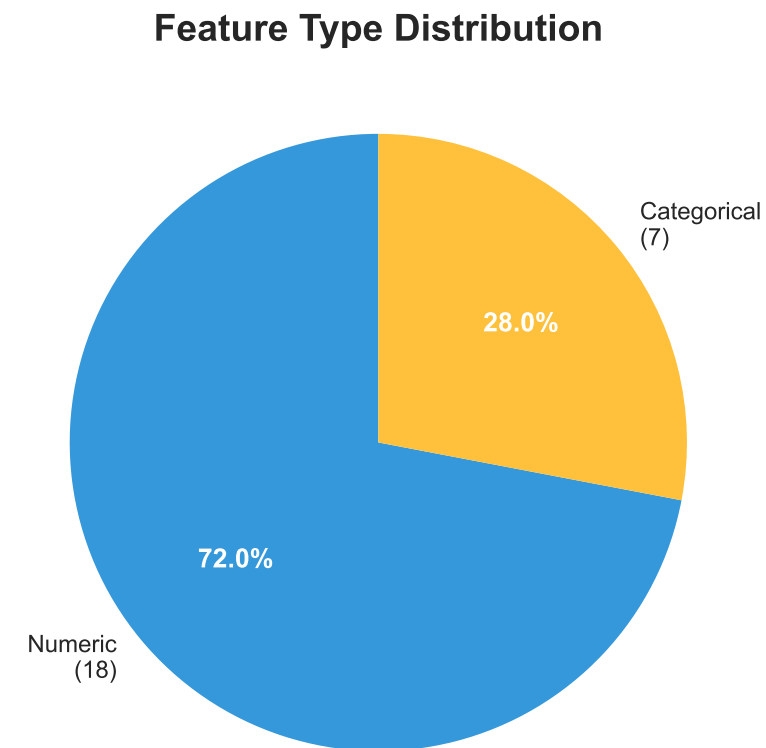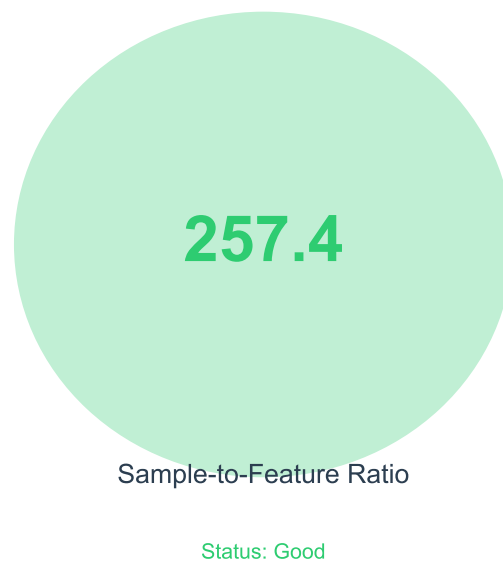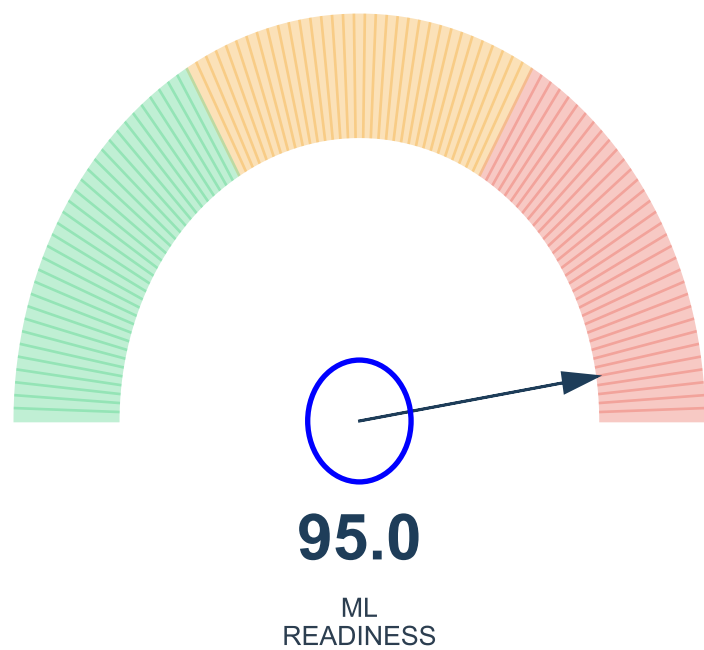
Recommended ML Algorithms

Algorithm	Score	Description
SVM	75%	Good for classification
Logistic Regression	78%	Baseline model
Neural Networks	85%	Deep learning potential
XGBoost	92%	High performance gradient boosting
Random Forest	95%	Excellent for mixed data types

Suitability Score (%)

0   20   40   60   80   100   120