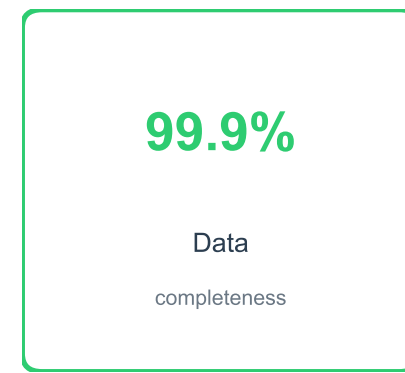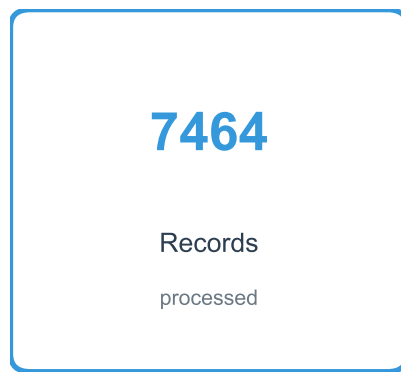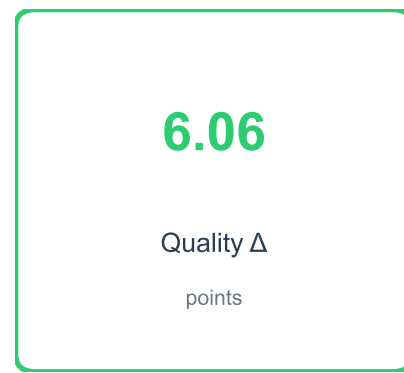# RTGS DATA INTELLIGENCE DASHBOARD

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
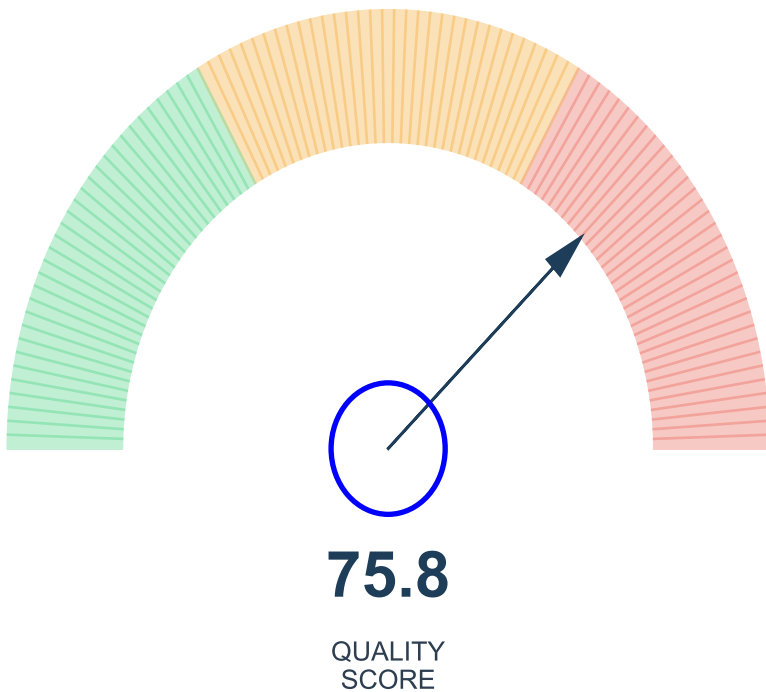
Data Processing Pipeline

Raw Data → Cleaned → Transformed → Validated → Production

Quality Improvement Trajectory

Initial	Cleaning	Transformation	Validation	Final
69.7	71.6	73.4	74.9	75.8

Quality Score
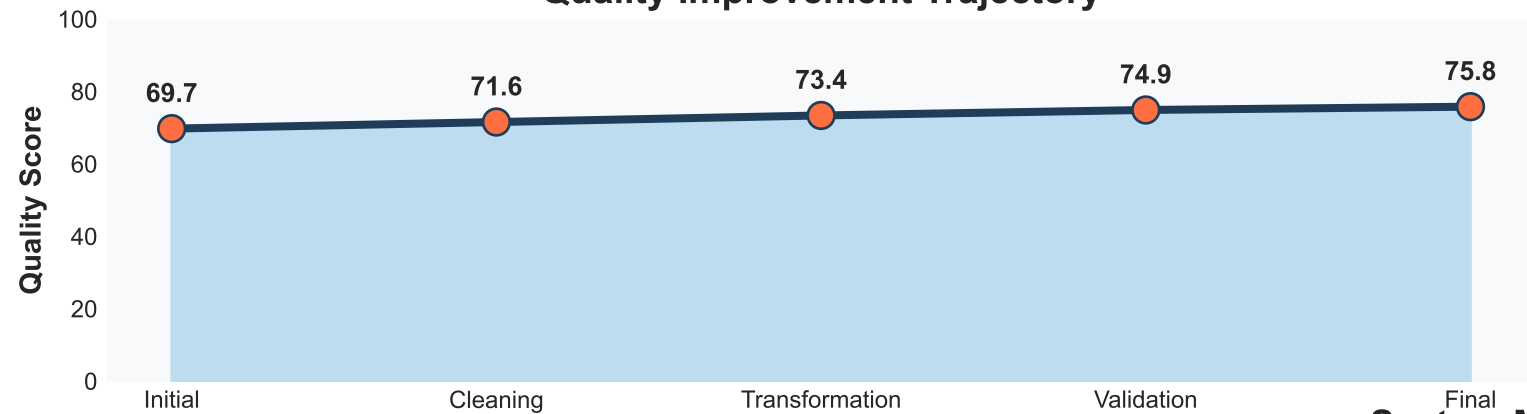
Dataset Profile Comparison

Legend: Original, Processed

Values — Metrics: Rows, Columns, Numeric, Categorical, Complete %
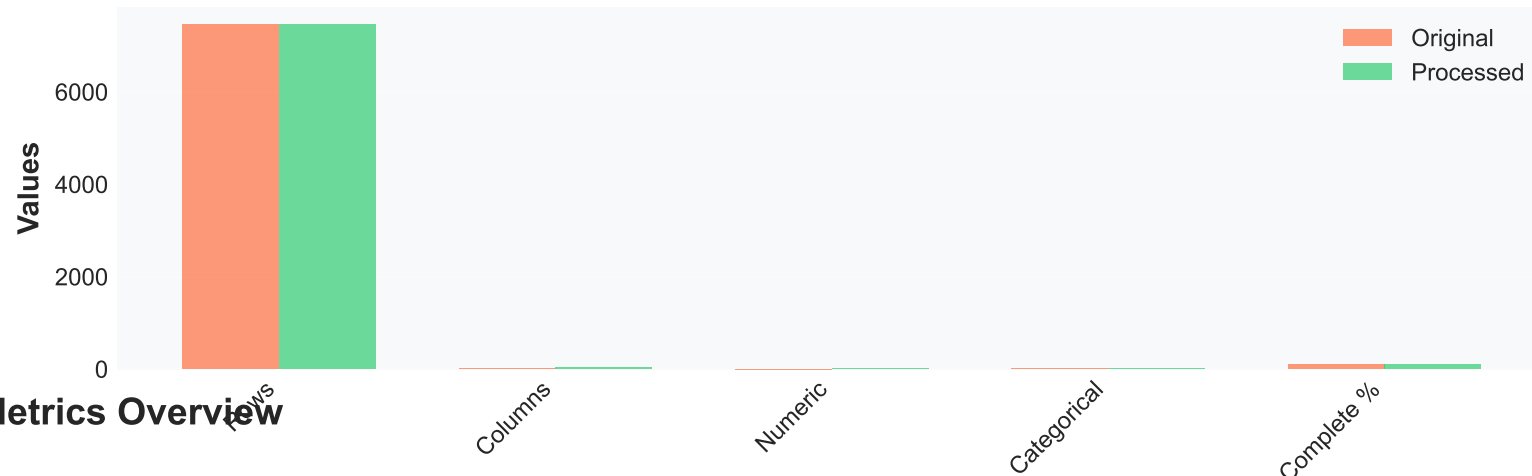
System Metrics Overview

Risk Assessment Matrix

Impact ↑ / Likelihood →

- Scalability
- Completeness
- Data Quality
- Outliers
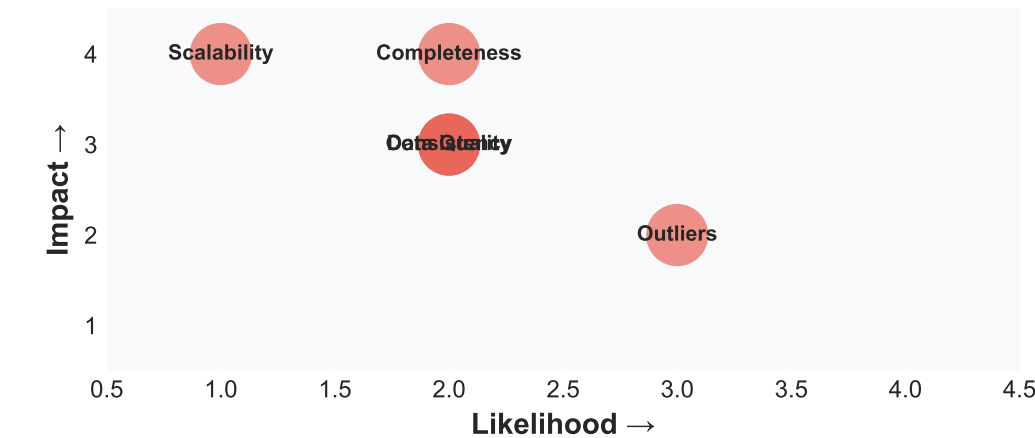
DATASET METRICS SUMMARY

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

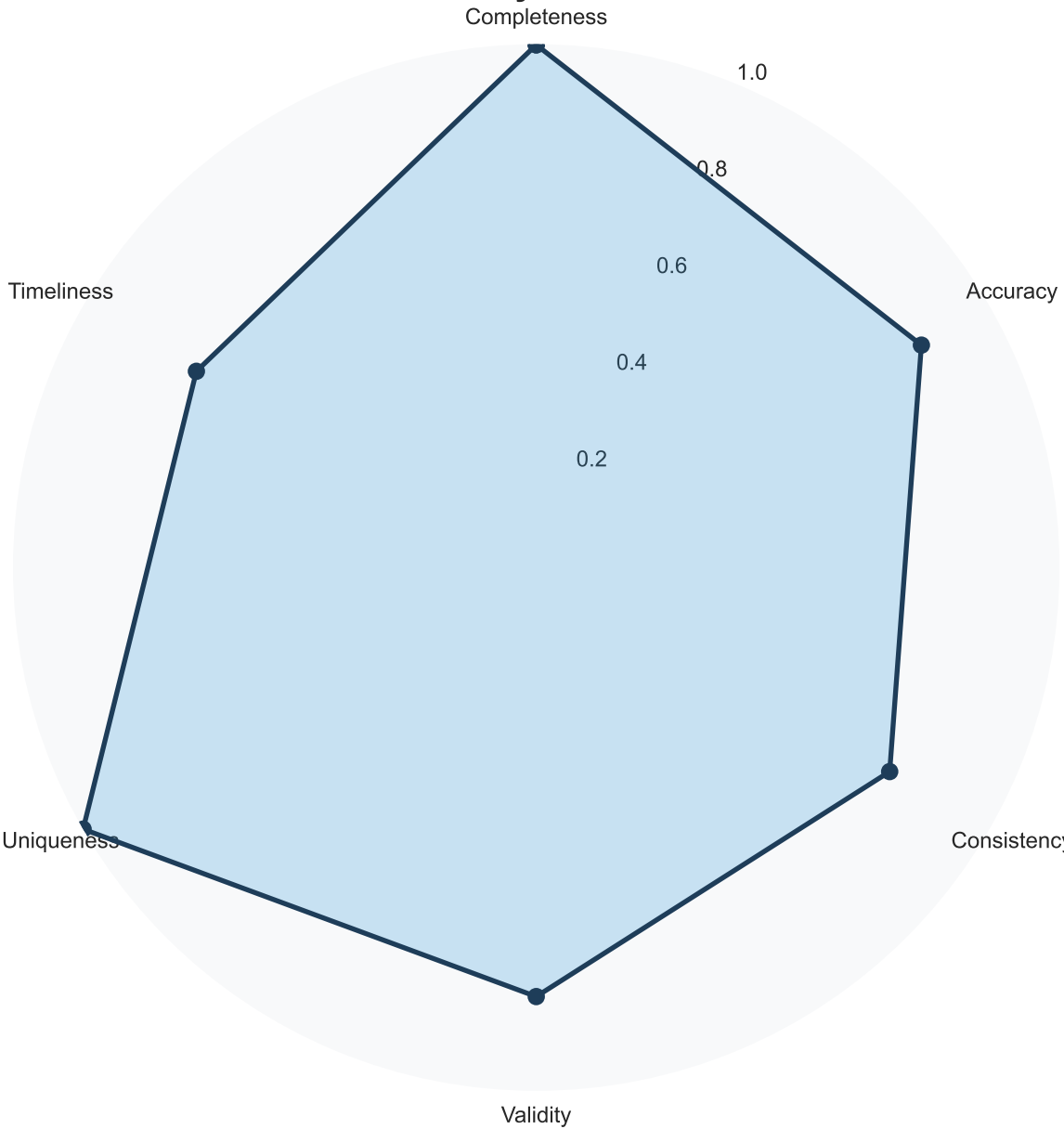Quality Status: Production Ready
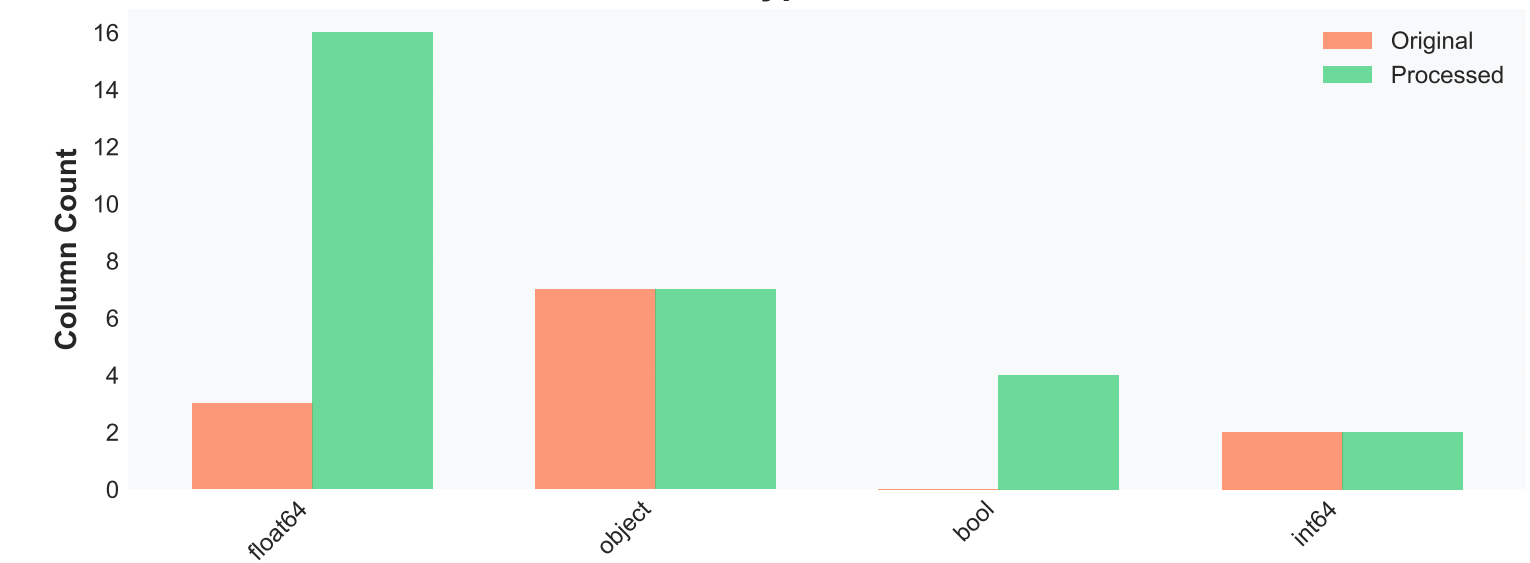ML Readiness: 95%

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
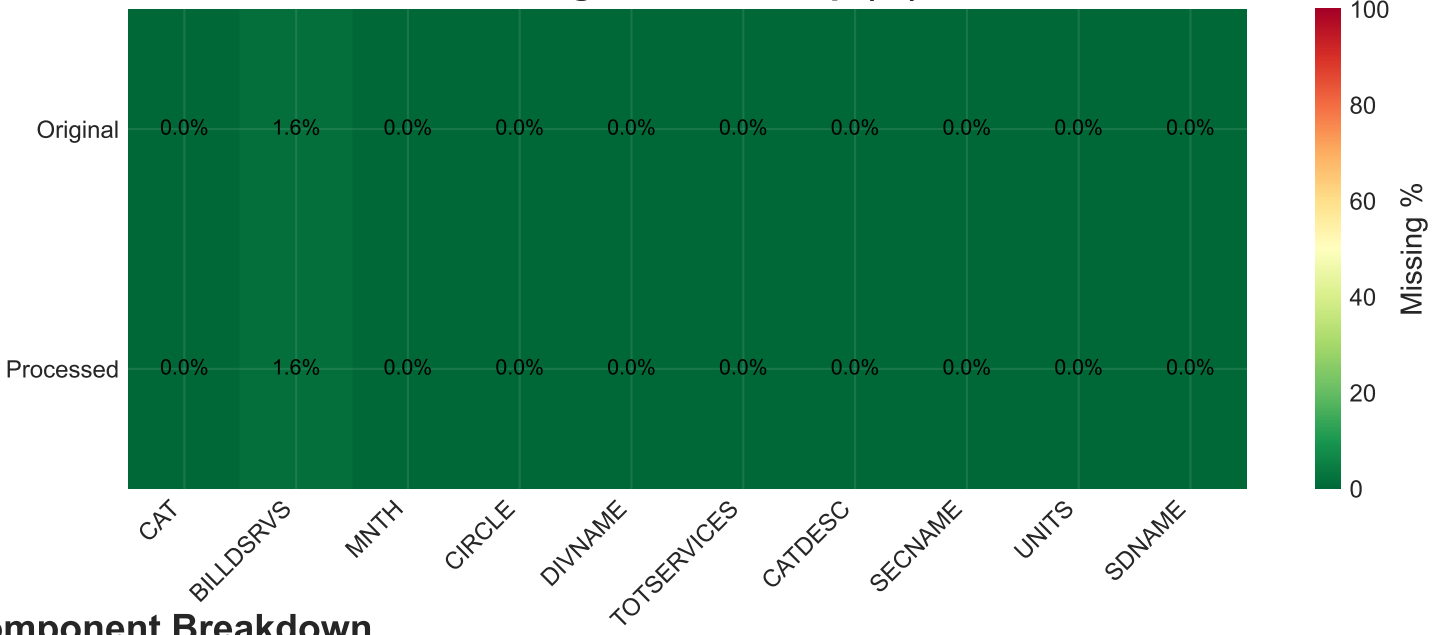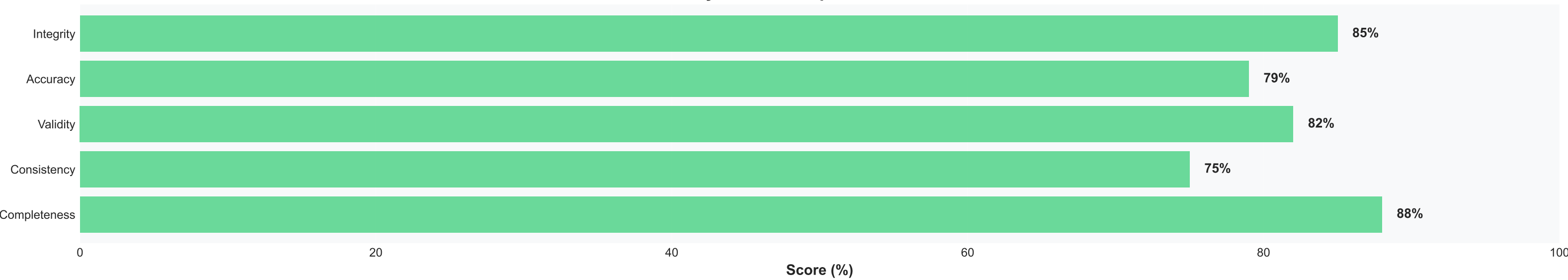
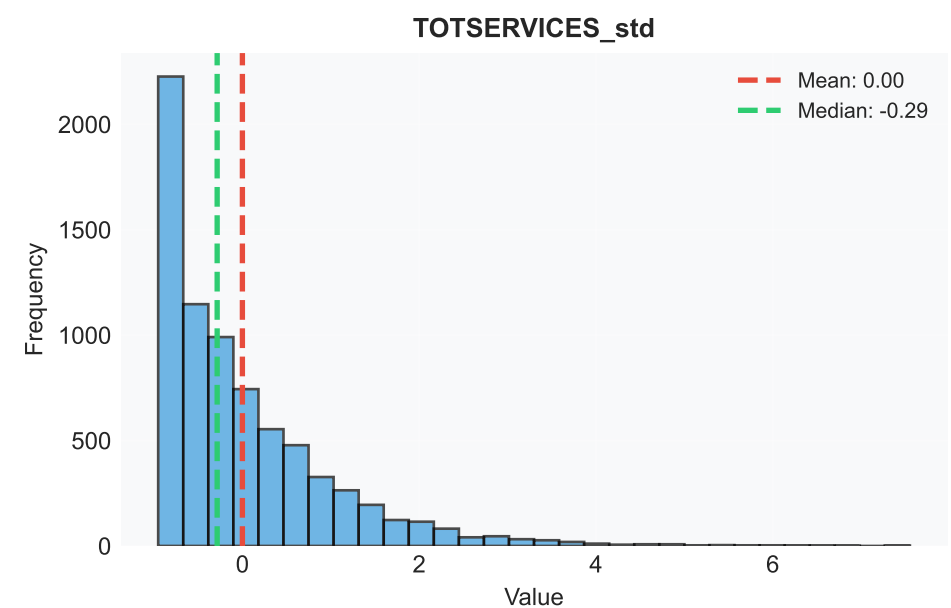# DATA QUALITY SCORECARD

Data Quality Dimensions

Radar chart with axes: Completeness, Accuracy, Consistency, Validity, Uniqueness, Timeliness

Data Type Evolution

Legend: Original, Processed

Data Types	Original	Processed
float64	3	16
object	7	7
bool	0	4
int64	2	2

Y-axis: Column Count

Missing Data Heatmap (%)

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

Color scale: Missing % (0 to 100)

Quality Score Component Breakdown

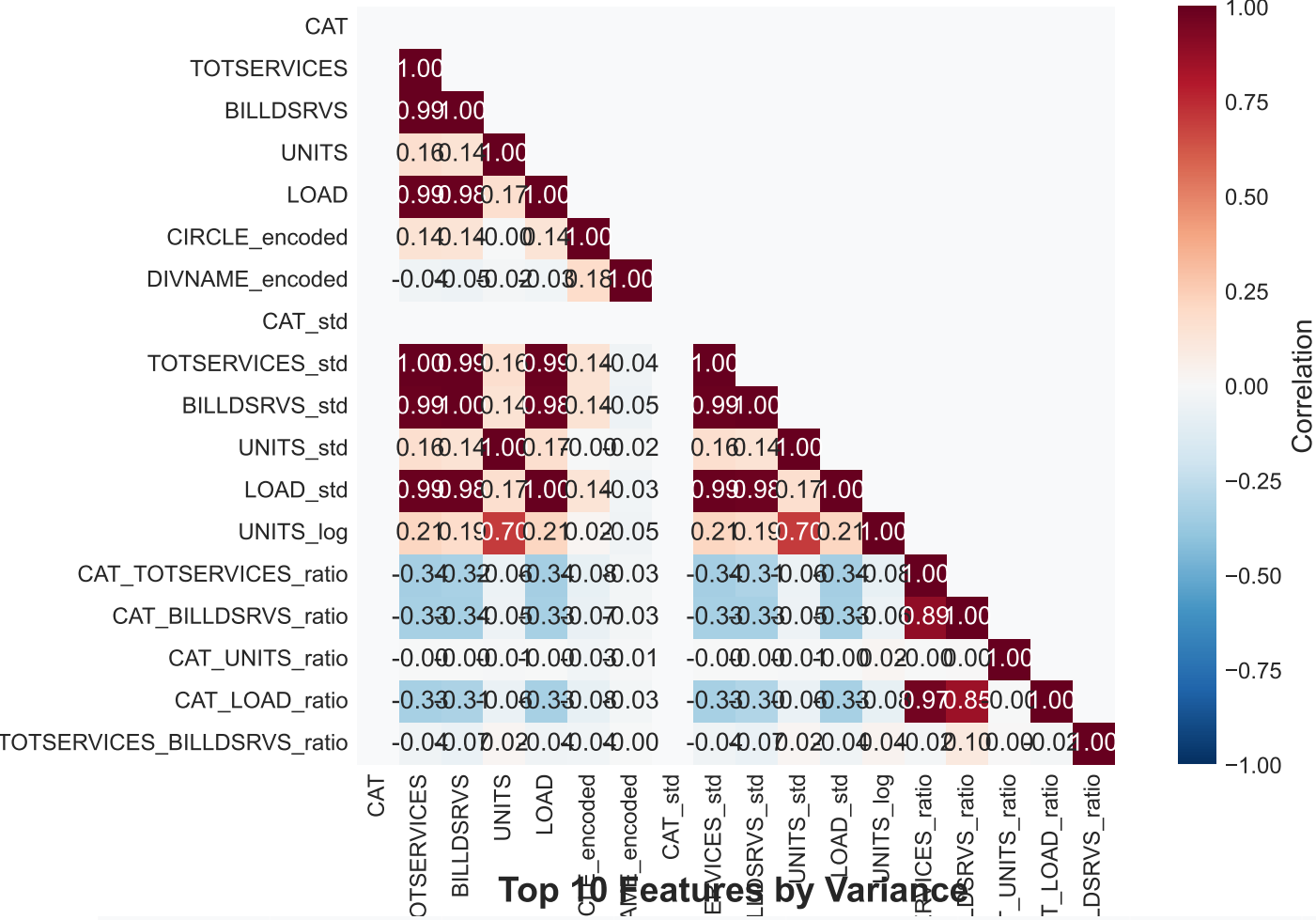| Component	Score (%)
Integrity	85%
Accuracy	79%
Validity	82%
Consistency	75%
Completeness	88%

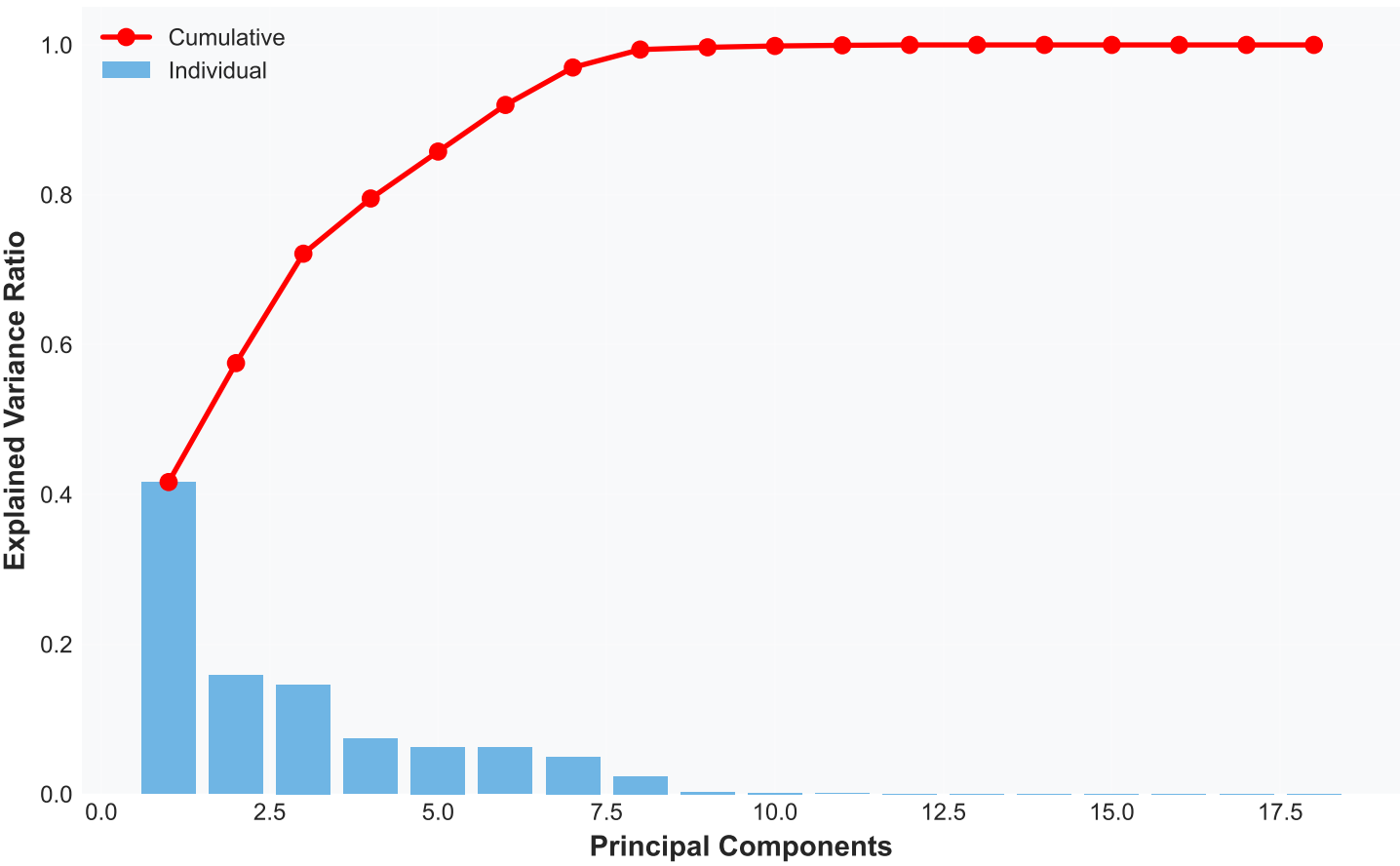STATISTICAL DEEP DIVE ANALYSIS
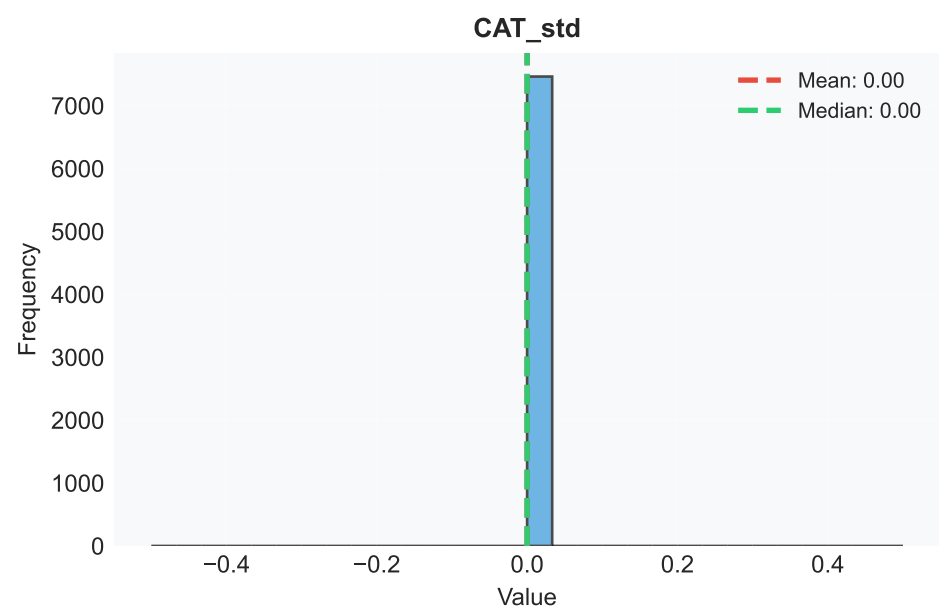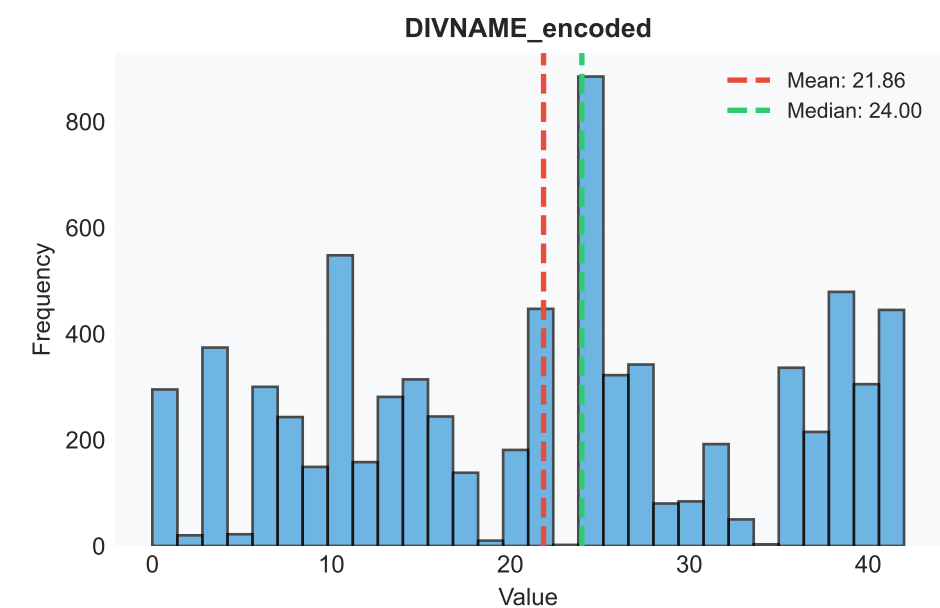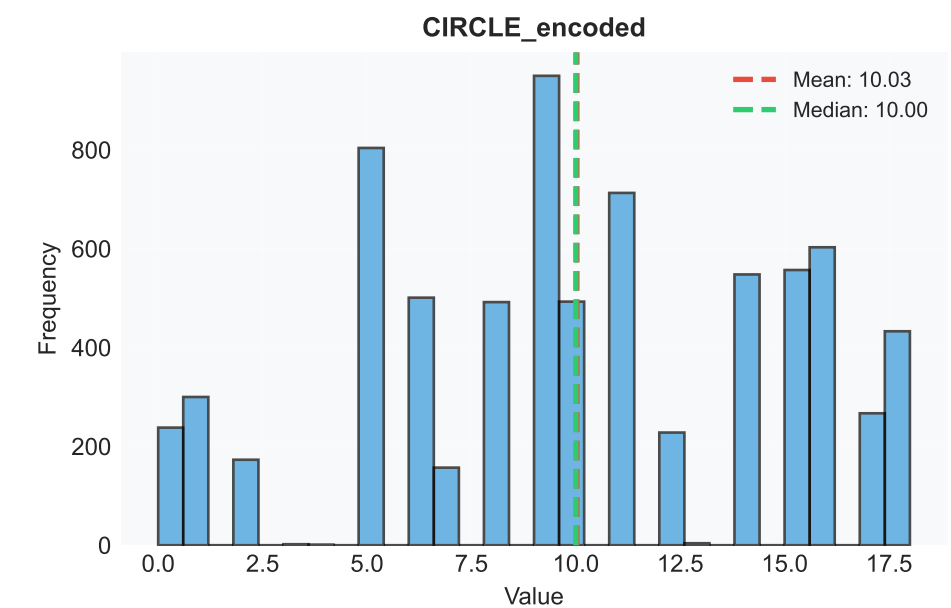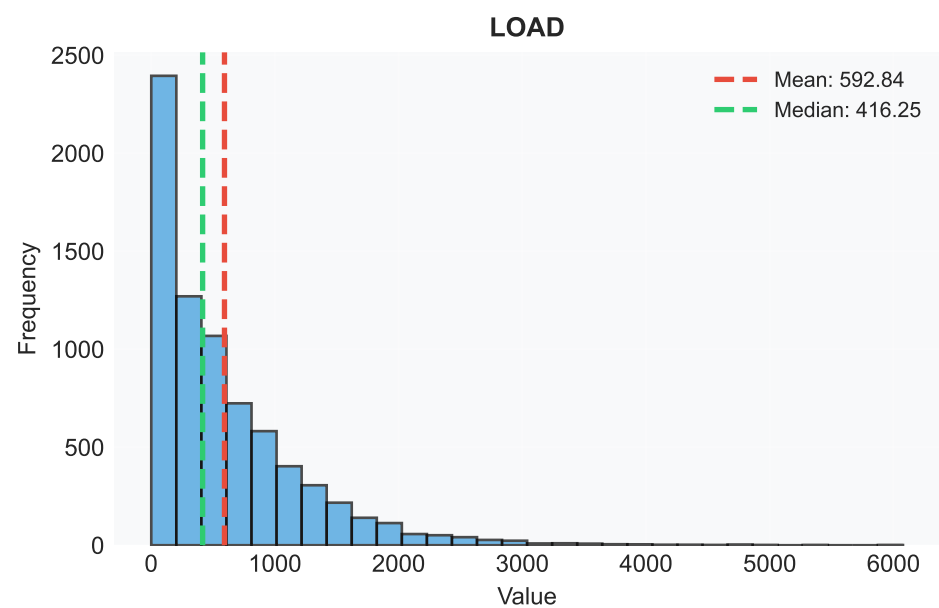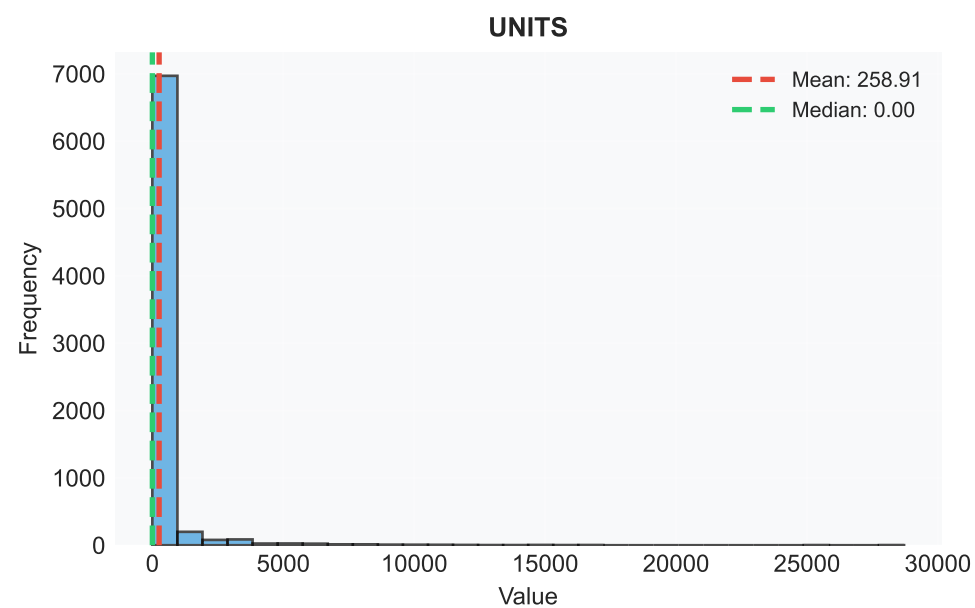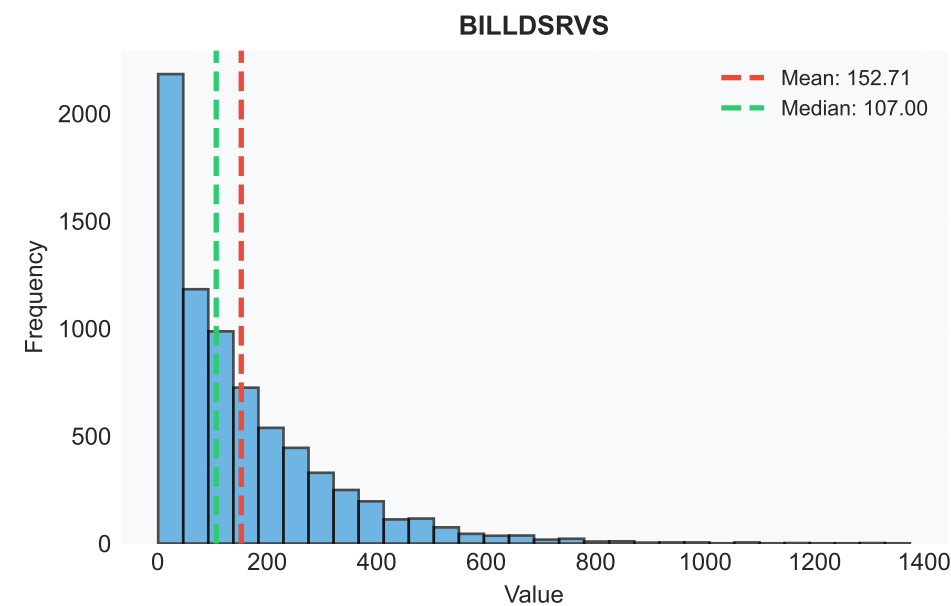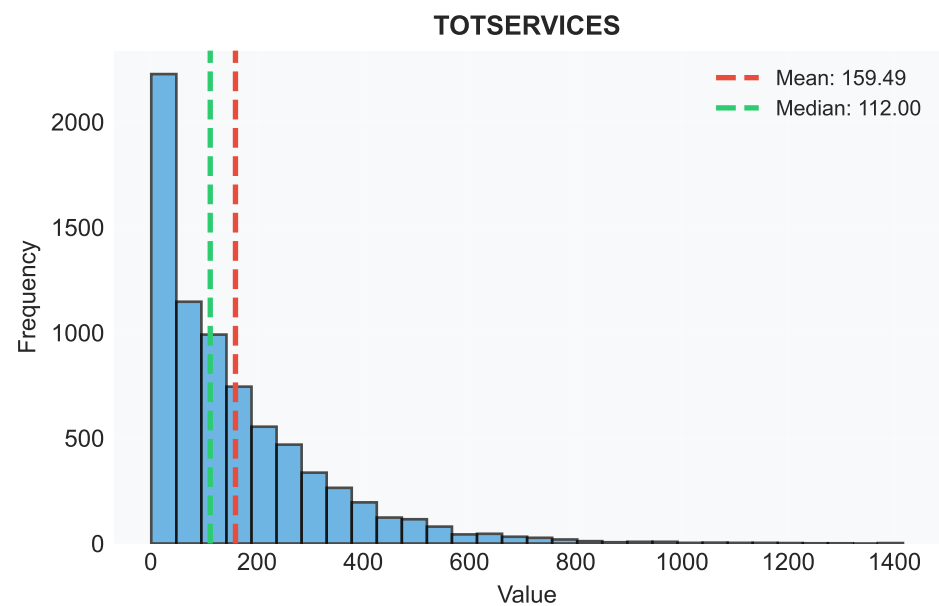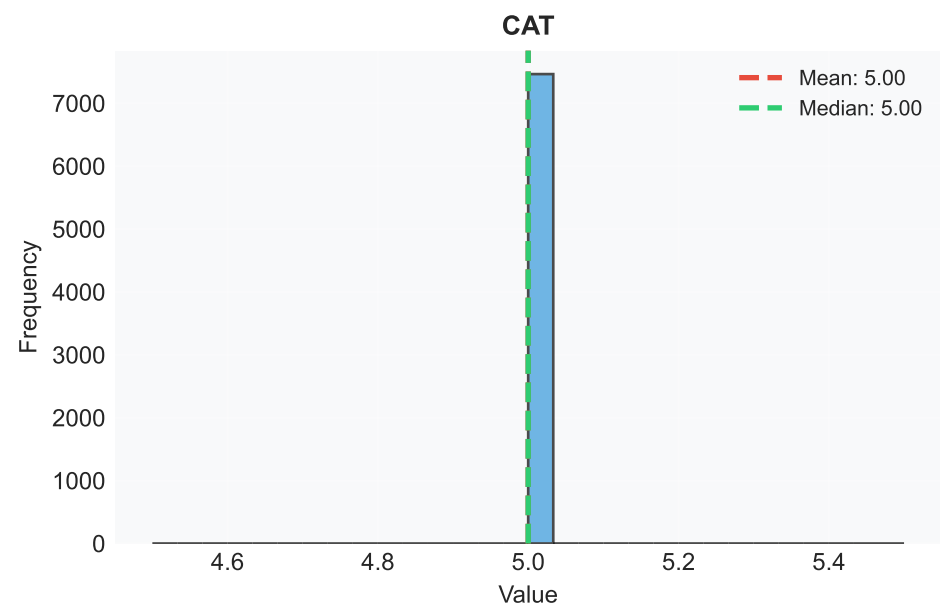
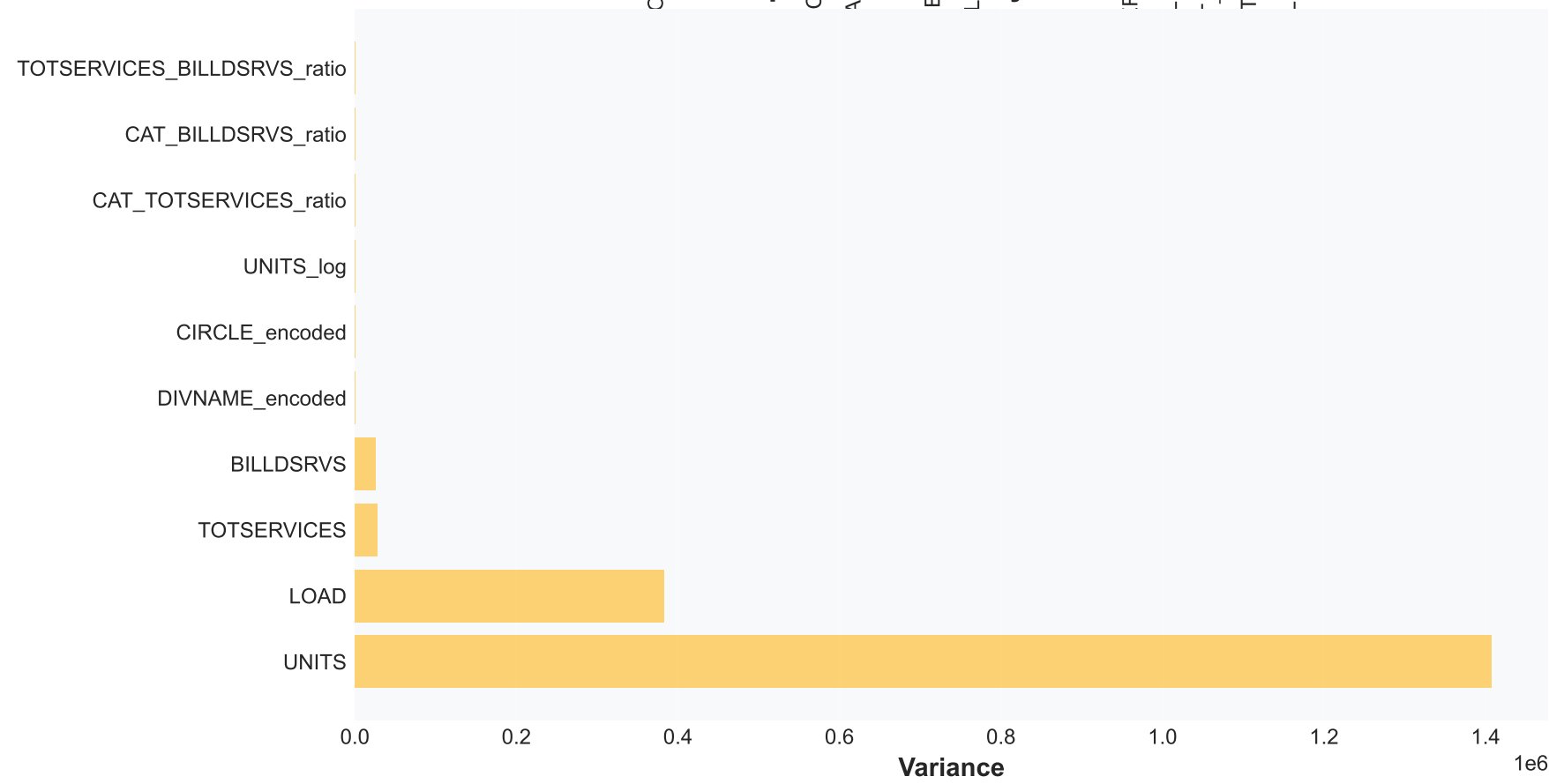# CORRELATION & PATTERN DISCOVERY

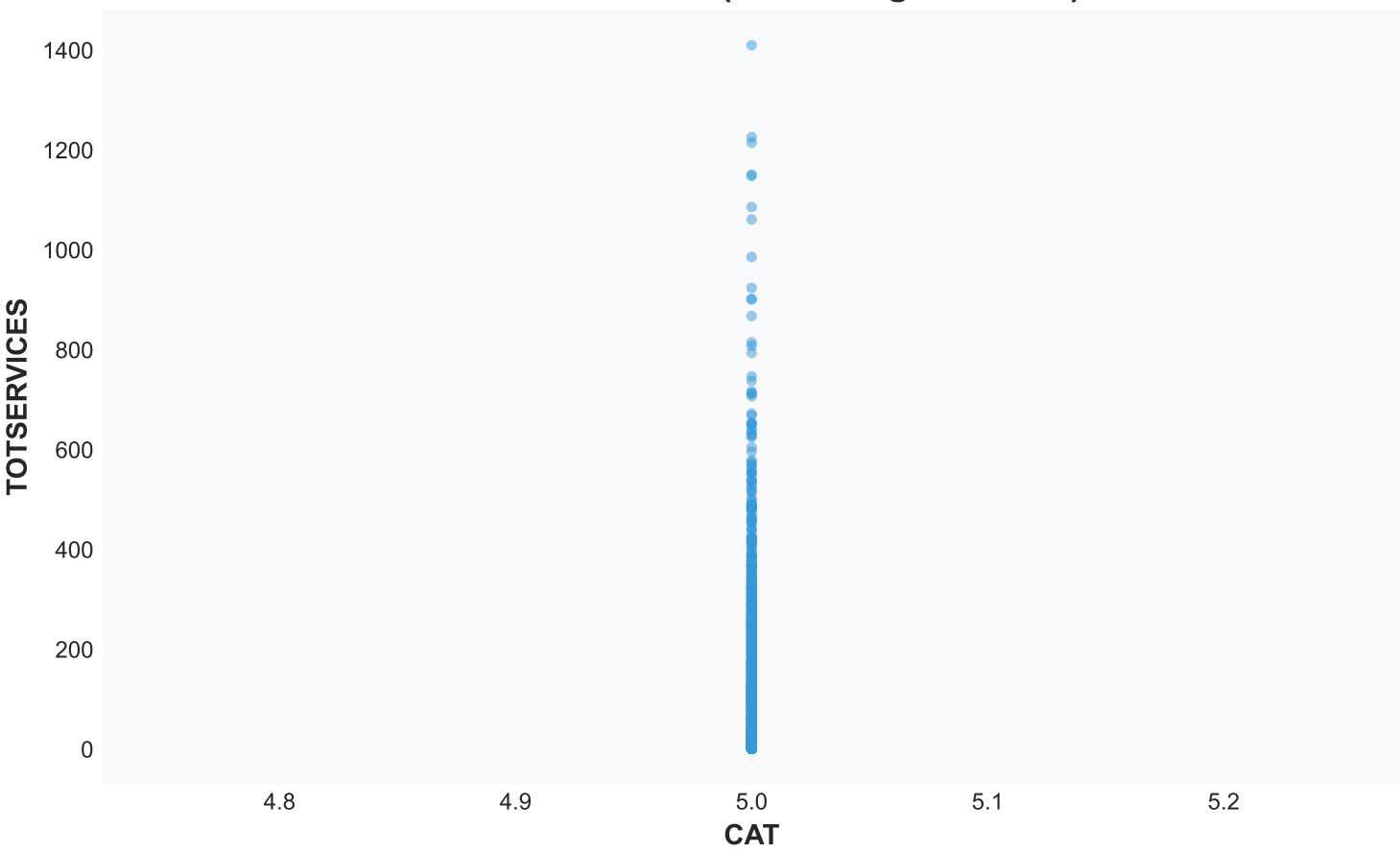## Correlation Matrix

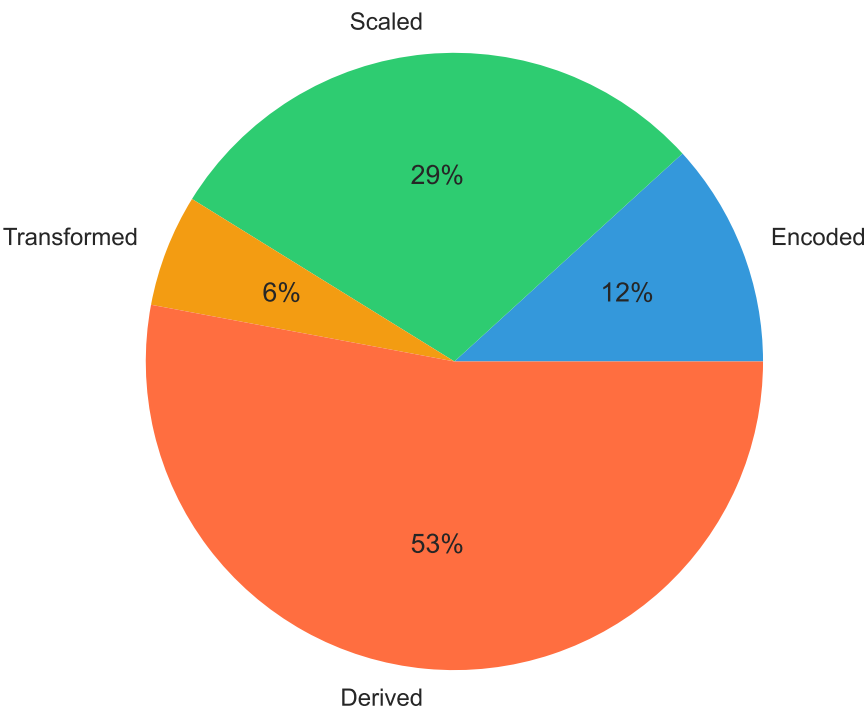## PCA Explained Variance

Top 10 Features by Variance

Data Distribution (Clustering Potential)
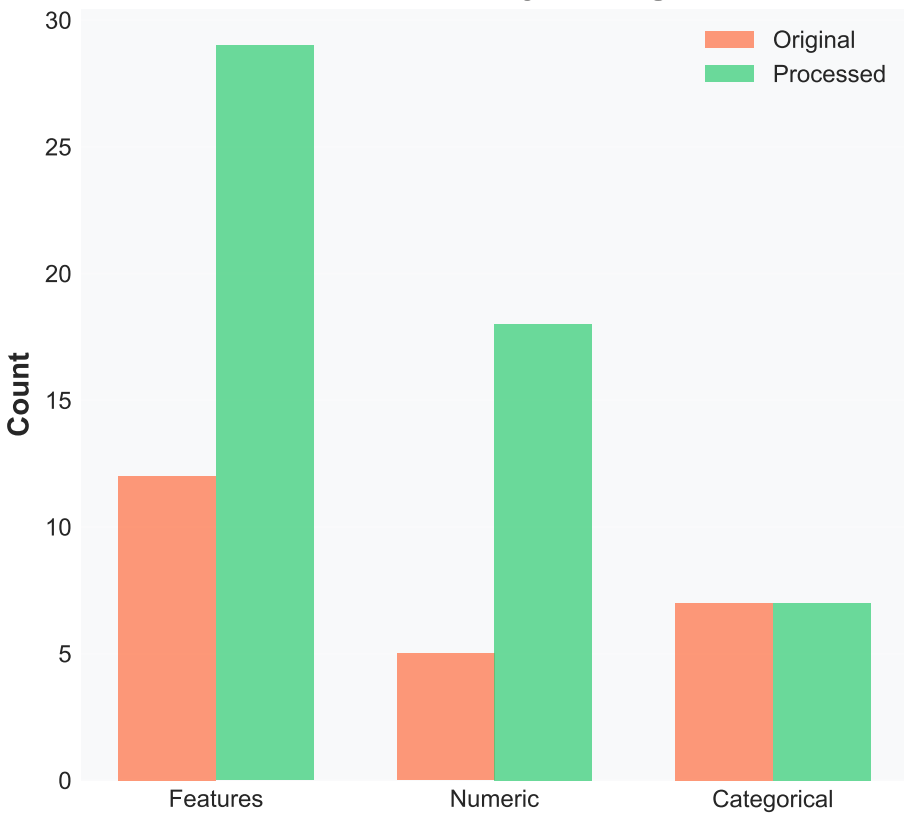
FEATURE ENGINEERING IMPACT ANALYSIS

Feature Engineering Summary (17 new features)
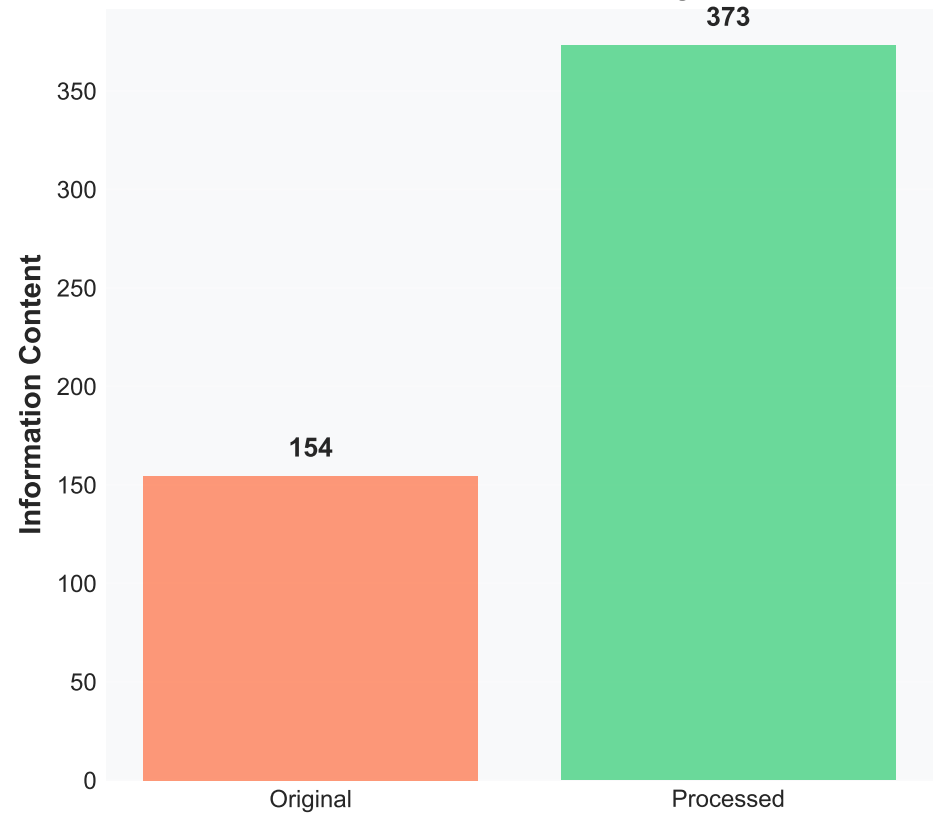
ANOMALY DETECTION & OUTLIER ANALYSIS
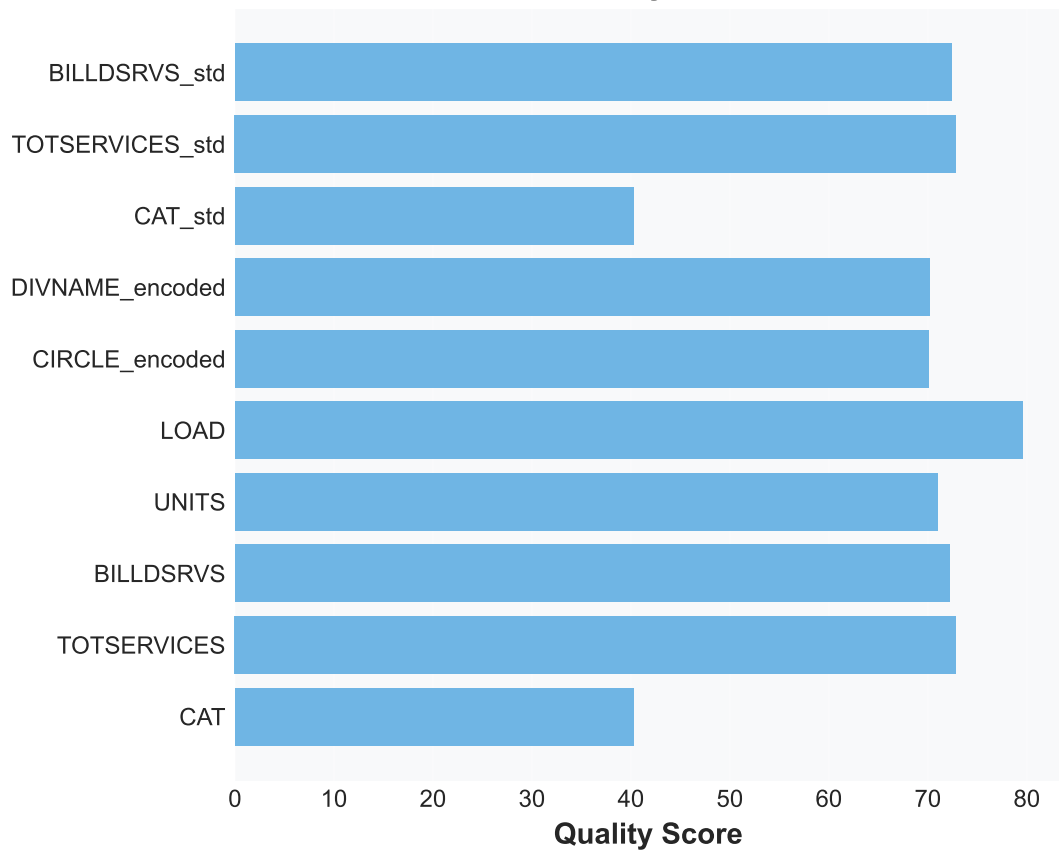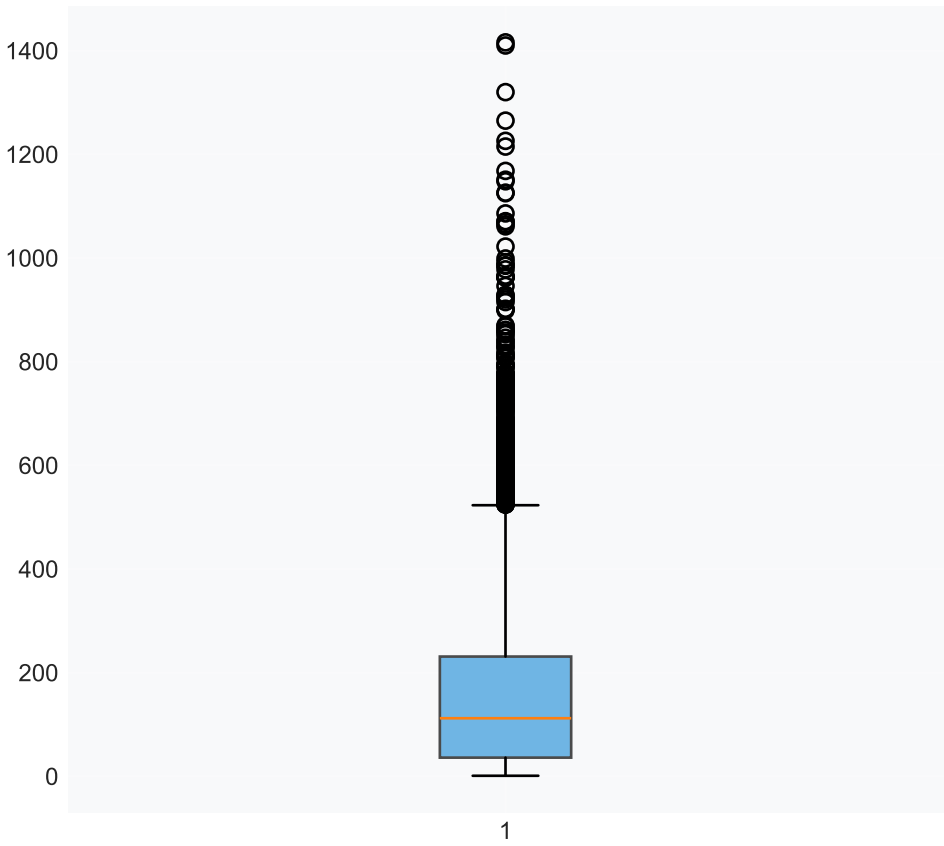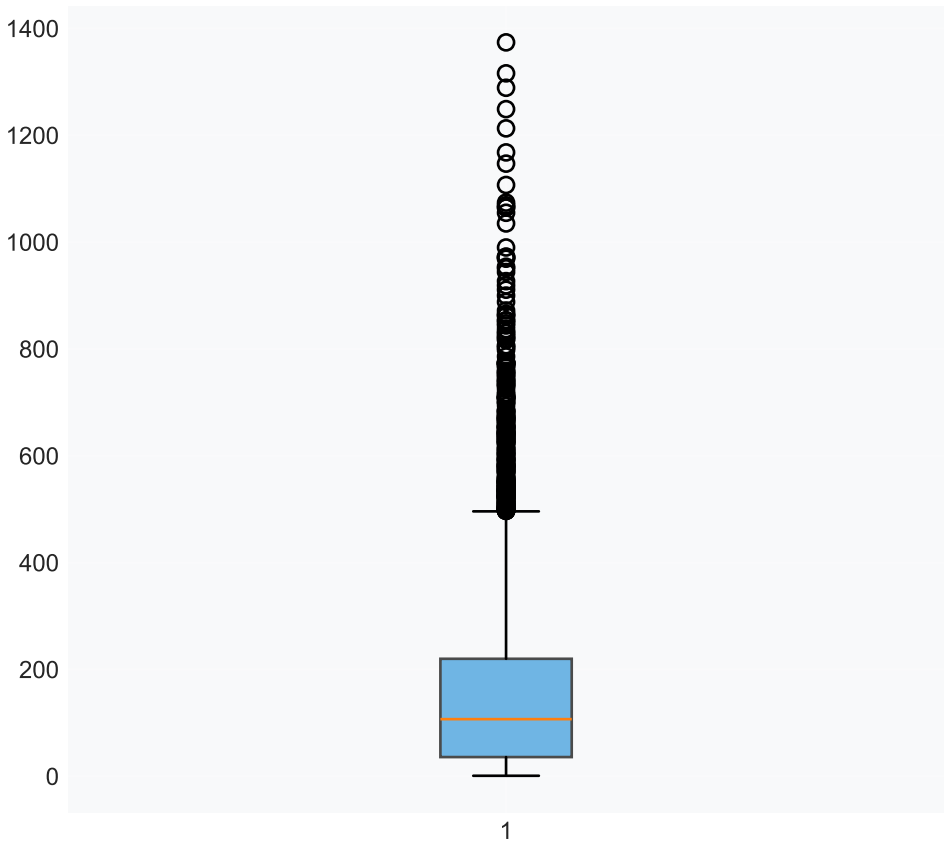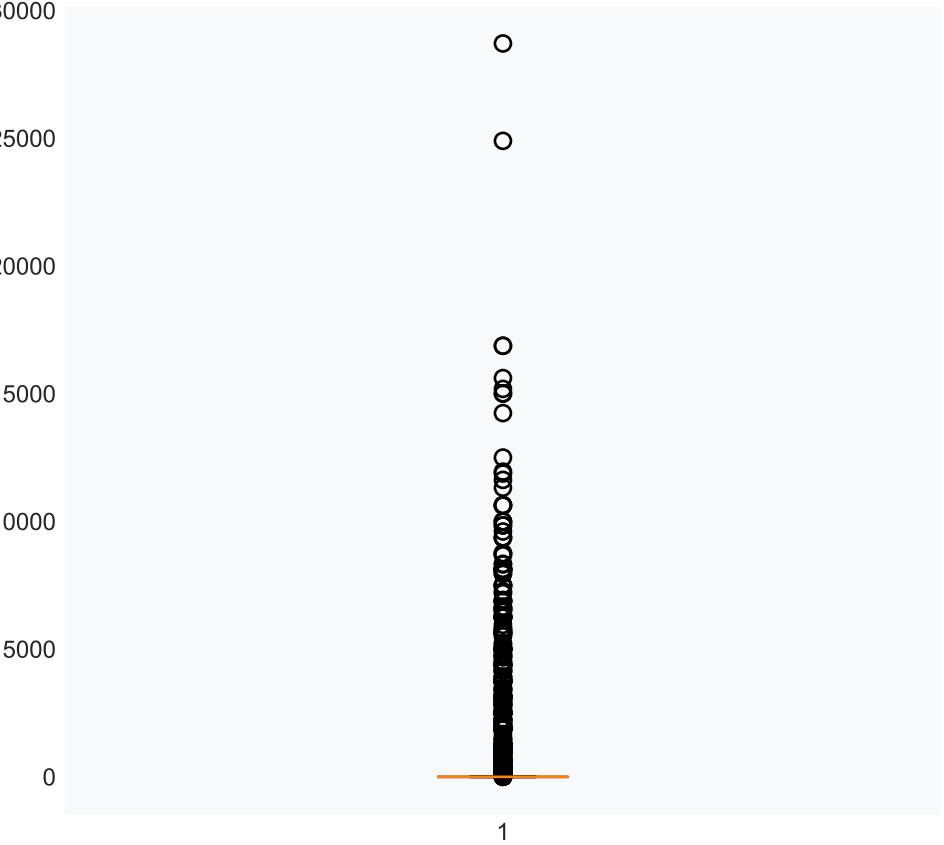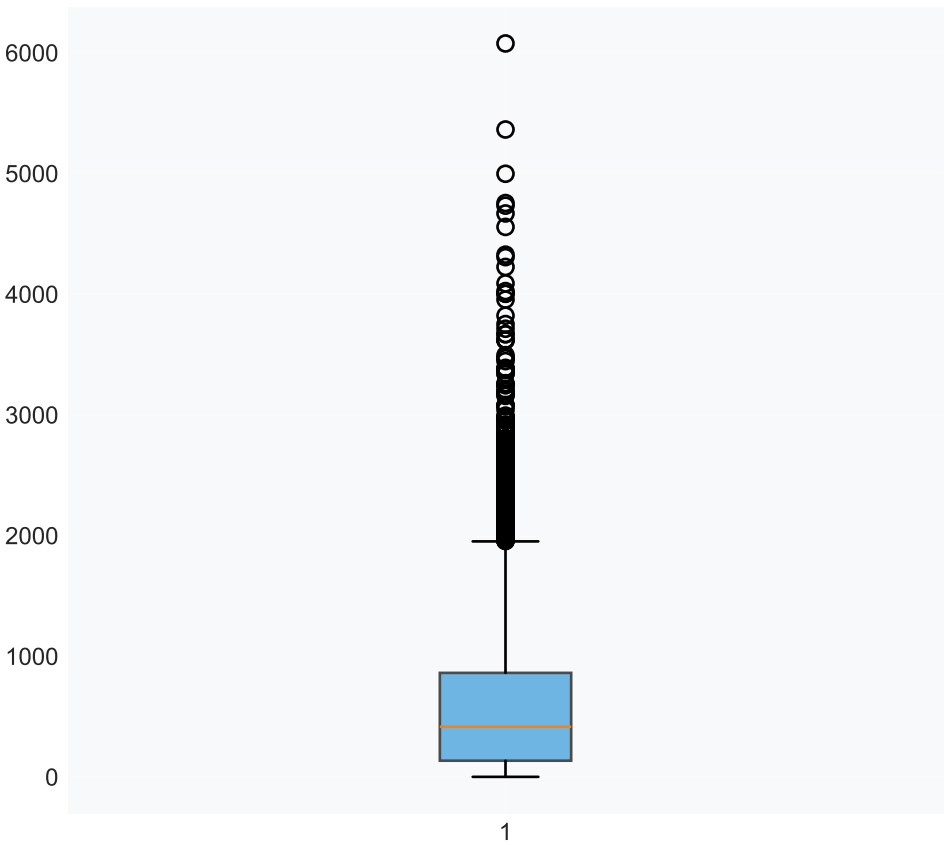
CAT
0.0% outliers
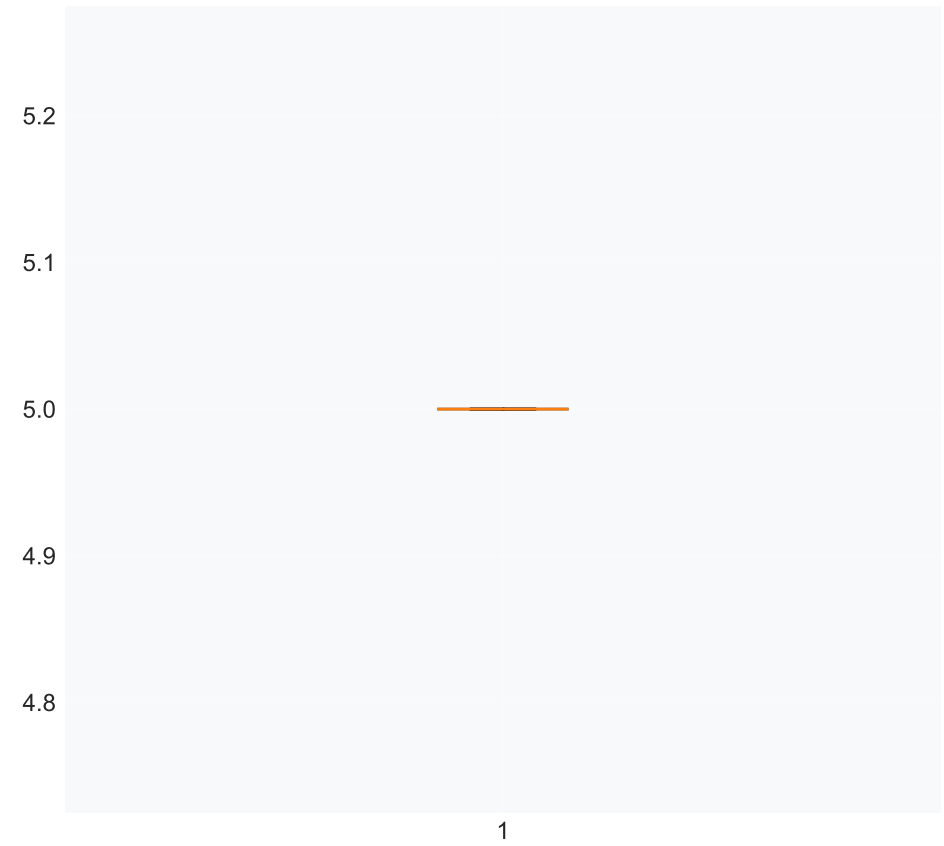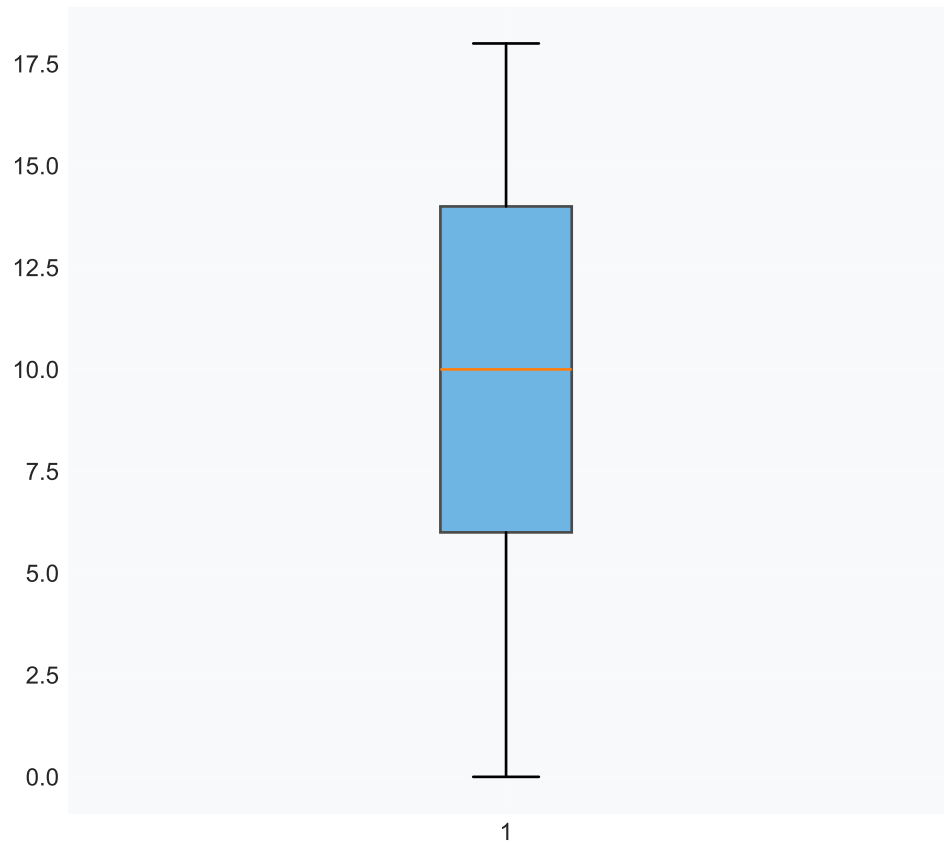
TOTSERVICES
3.9% outliers

BILLDSRVS
4.0% outliers

UNITS
11.5% outliers

LOAD
3.7% outliers
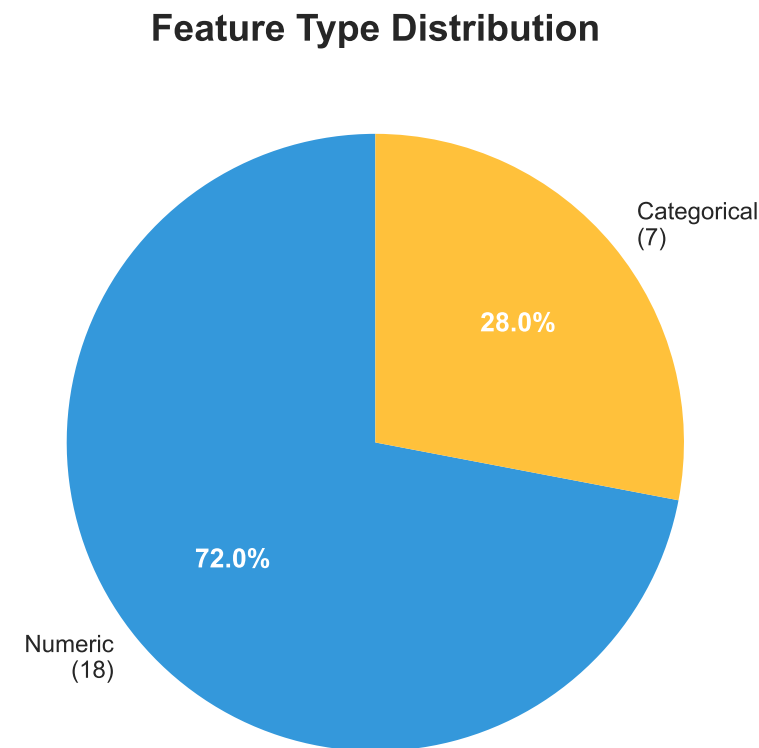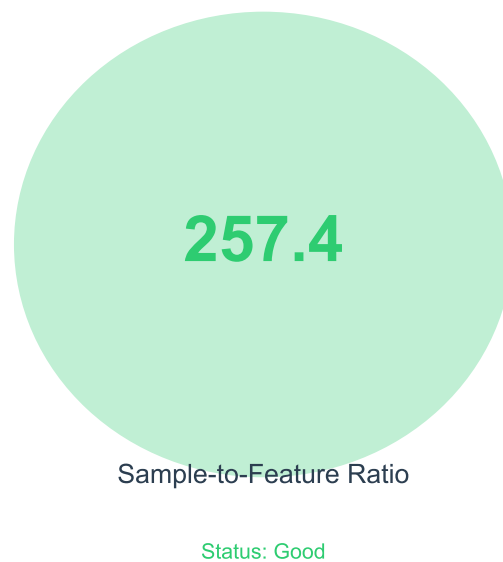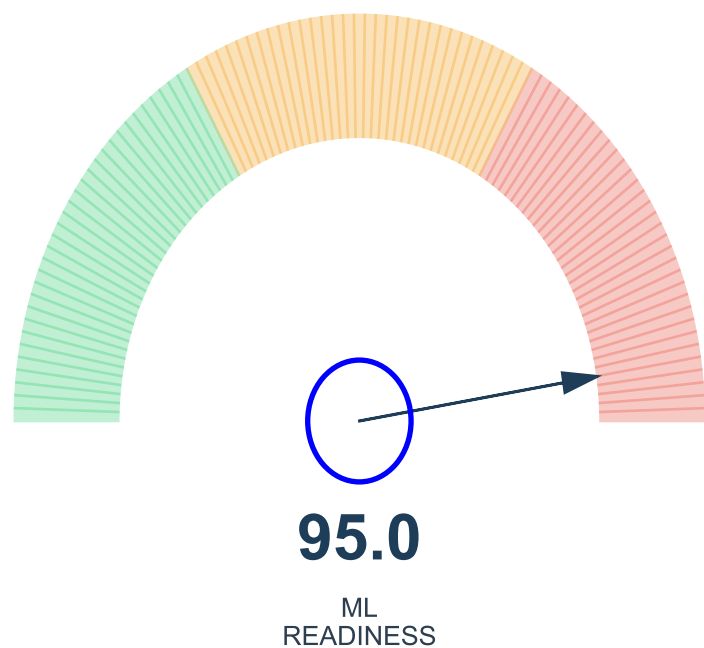
CIRCLE_encoded
0.0% outliers

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 (%)