

# **Maximo Work Order Anonymized Dataset**

Prepared by: Kyle Willhide

Course: INSY 7120 - Data Mining

University: Auburn University

Date: May 5, 2025

## Maximo Work Order Anonymized Dataset

### Dataset Description

This dataset consists of anonymized maintenance work order data exported from a Maximo CMMS used in a manufacturing environment. Each row represents a single work order including information about downtime, failures, personnel involved, and operating conditions.

All identifying information has been anonymized to preserve confidentiality. This dataset is intended for academic purposes, including data mining, clustering, and reliability analysis.

### Feature Descriptions

#### **WONUM**

Anonymized work order number.

#### **ASSETNUM**

Anonymized identifier for the asset involved.

#### **LINE**

Anonymized production line or location.

#### **HNATOTALDT**

Total downtime recorded for the work order (in minutes).

#### **HNACOMMODITY**

Anonymized machine commodity group.

#### **FAILURECODE**

General classification of the failure.

#### **PROBLEM\_CODE**

Specific problem code reported.

#### **CAUSE\_CODE**

Identified root cause of the failure.

## Maximo Work Order Anonymized Dataset

### **REMEDY\_CODE**

Action or repair taken to resolve the issue.

### **LEAD**

Anonymized team lead for the work order.

### **SUPERVISOR**

Anonymized supervisor responsible.

### **LABOR\_COUNT**

Number of labor personnel involved.

### **LABORHOURS**

Total labor hours logged.

### **dt<=5**

Binary indicator: 1 if downtime <= 5 minutes, 0 otherwise.

### **SHIFT**

Shift during which the work order was created.

### **CREW**

Crew assigned to the task.

### **DATE**

Date of downtime event in the format YYYY-MM-DD

### **WEEKDAYNUM**

Day of the week (1=Sunday, 7=Saturday).

### **ISWEEKEND**

Binary indicator: 1 if weekend, 0 otherwise.

## **Maximo Work Order Anonymized Dataset**

### **Anonymization Notes**

Sensitive fields such as asset numbers, work order numbers, production lines, and personnel names have been anonymized using a random unique mapping strategy. Each original value was replaced with a synthetic label (e.g., ASSET\_001, WONUM\_042) to preserve dataset structure and relationships for analysis.

No real names, locations, or proprietary codes remain in this dataset.