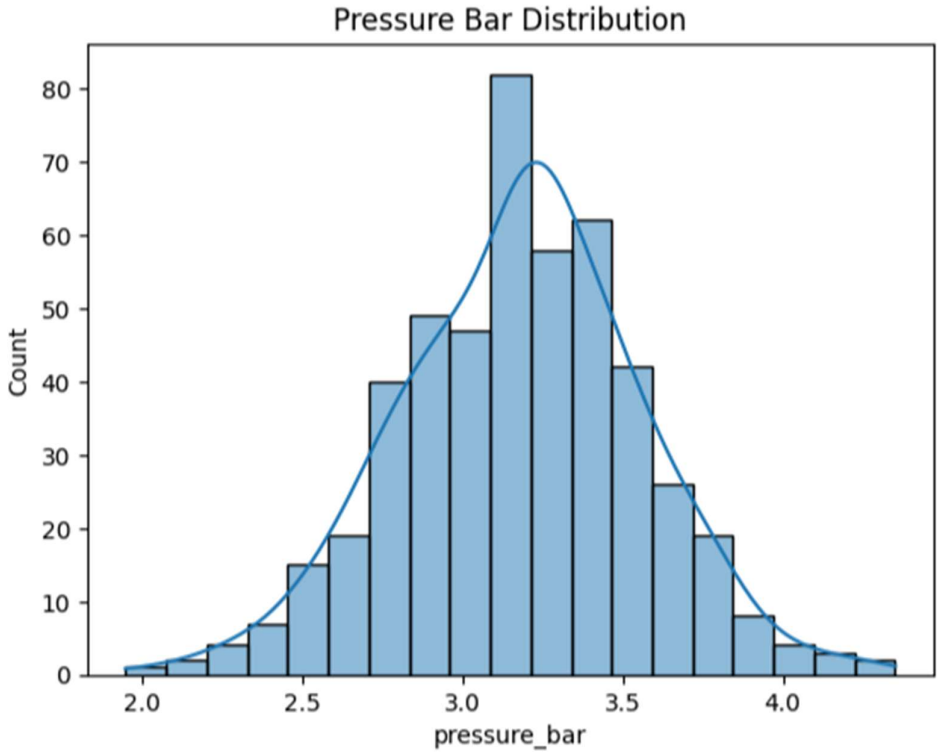
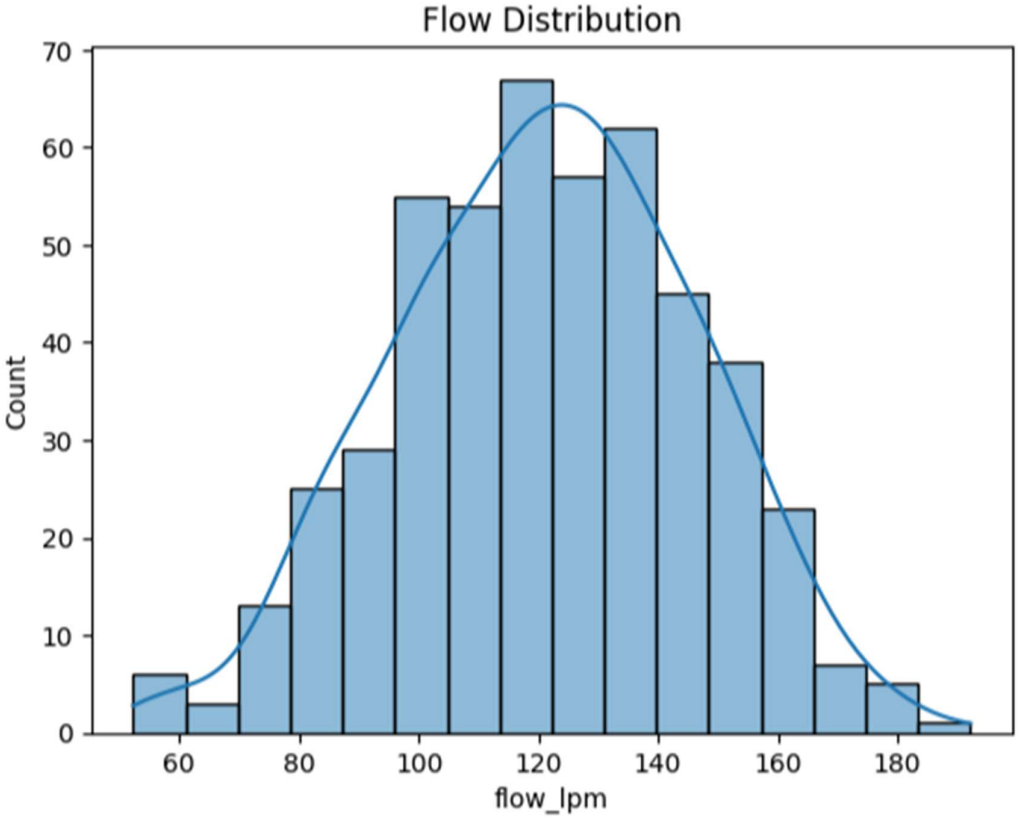
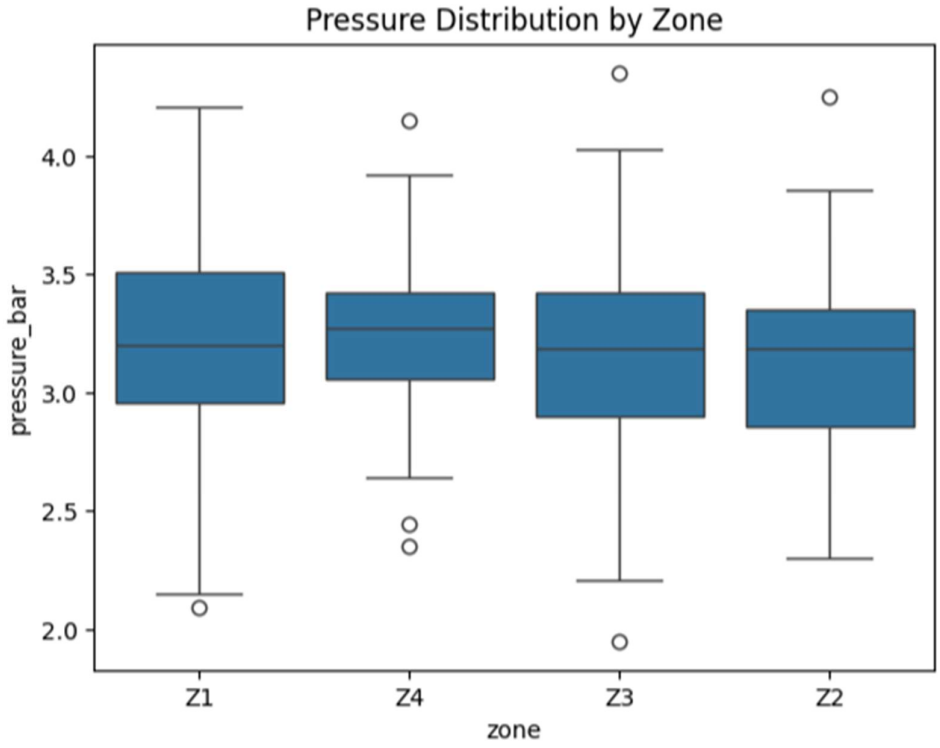
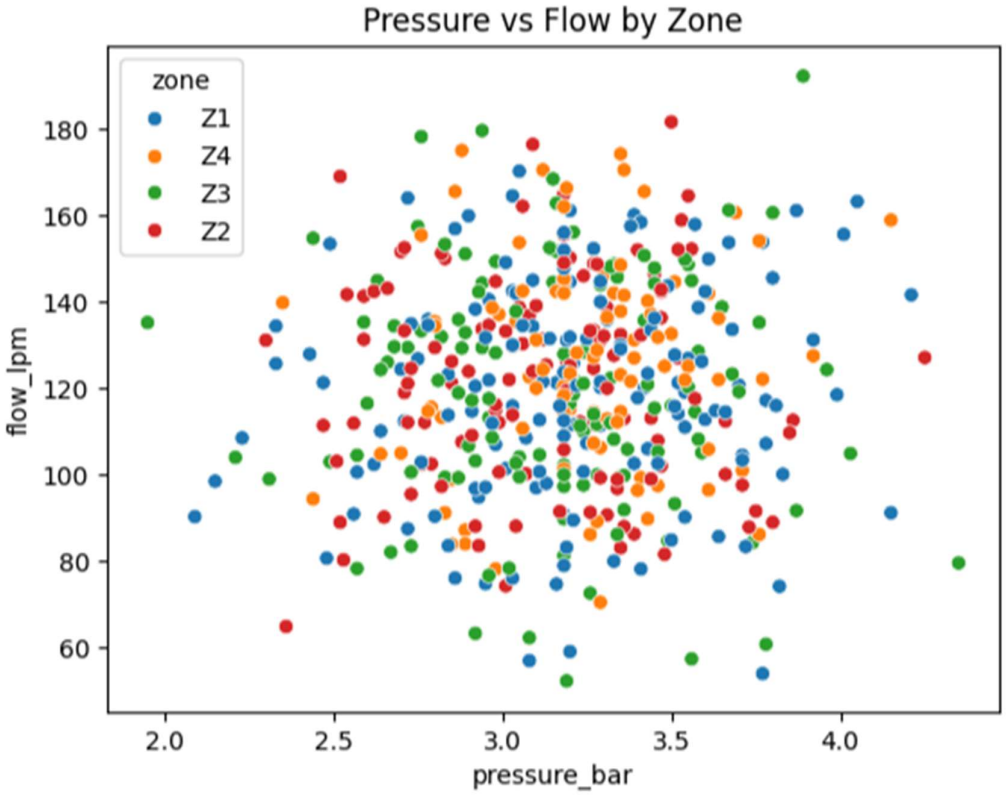
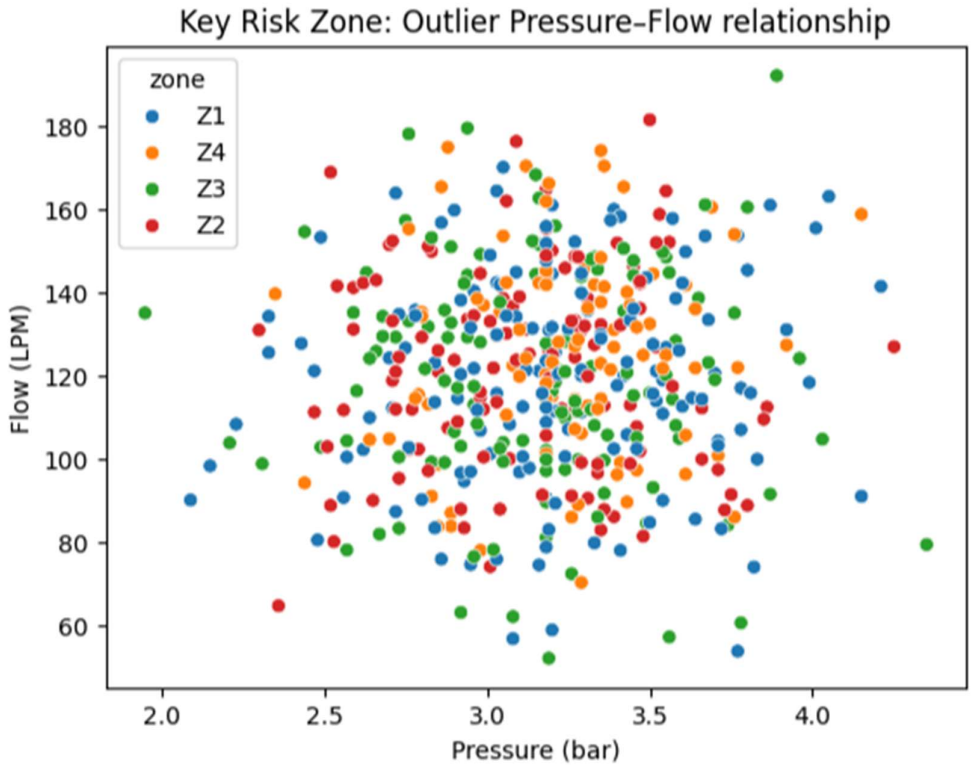
IoT WATER NETWORK MONITORING – VISUALIZATION PLOTS

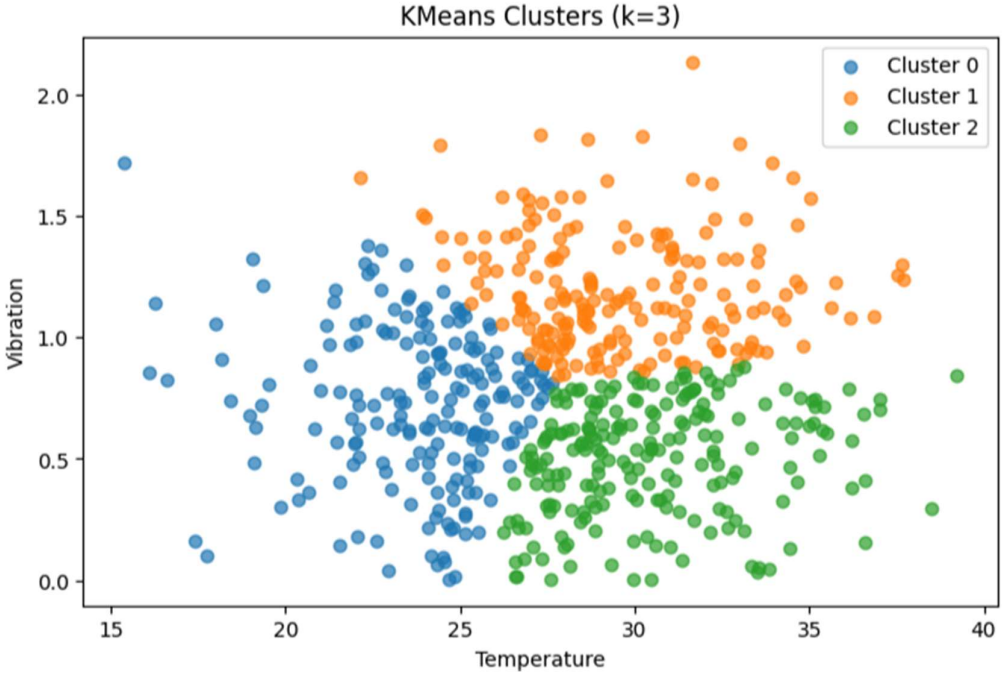


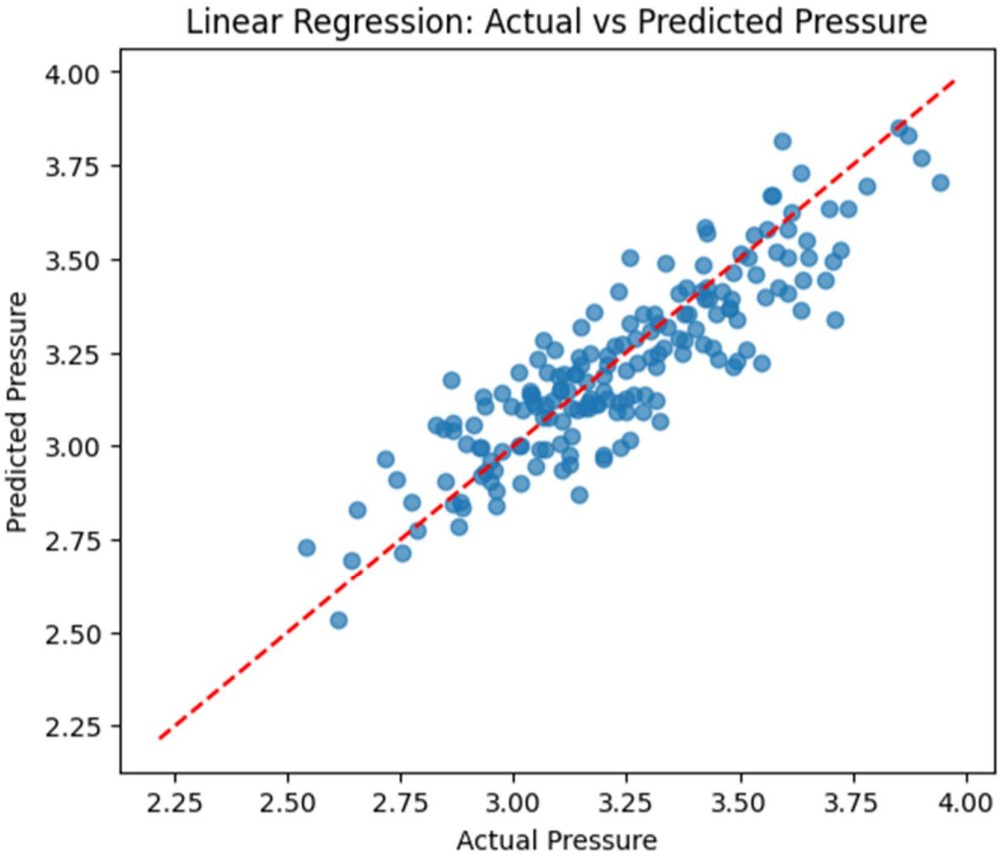



Pressure Distribution by Zone
pressure_bar
4.0
3.5
3.0
2.5
2.0
Z1
Z4
Z3
Z2
zone


Pressure vs Flow by Zone
zone
Z1
Z4
Z3
Z2
flow_lpm
180
160
140
120
100
80
60
2.0
2.5
3.0
3.5
4.0
pressure_bar


Key Risk Zone: Outlier Pressure–Flow relationship
zone
Z1
Z4
Z3
Z2
Flow (LPM)
180
160
140
120
100
80
60
2.0
2.5
3.0
3.5
4.0
Pressure (bar)


KMeans Clusters (k=3)
Cluster 0
Cluster 1
Cluster 2
Vibration
2.0
1.5
1.0
0.5
0.0
15
20
25
30
35
40
Temperature


Linear Regression: Actual vs Predicted Pressure
Predicted Pressure
Actual Pressure
4.00
3.75
3.50
3.25
3.00
2.75
2.50
2.25
2.25
2.50
2.75
3.00
3.25
3.50
3.75
4.00