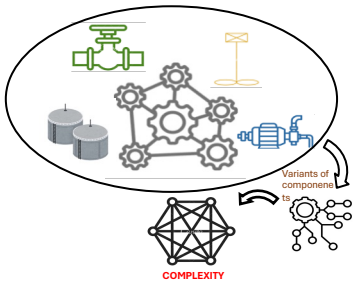
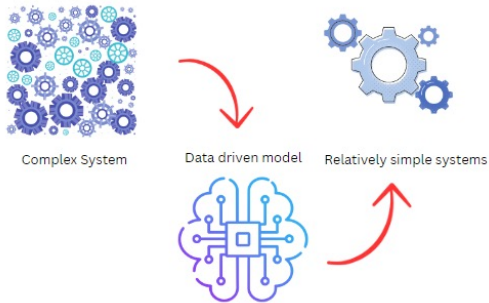


Introduction

Problem: Complexity because of variant of mechanical pumps

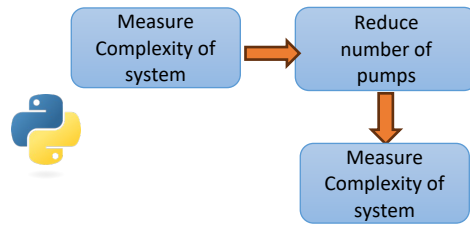


Goal: Data driven model to reduce the number of components

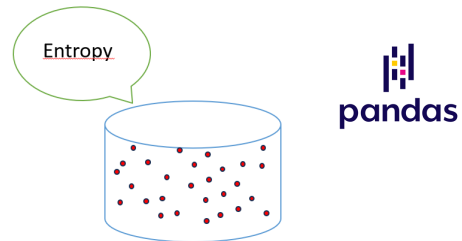


Methods

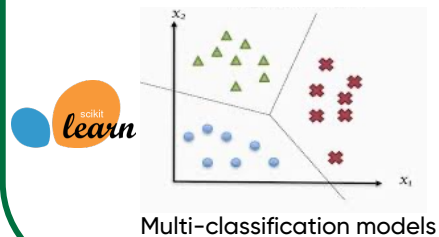
Flowchart:



Calculating Complexity:

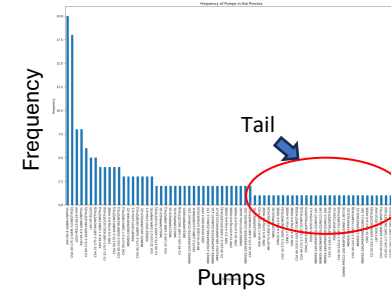


Reducing Complexity/ Data driven Model :

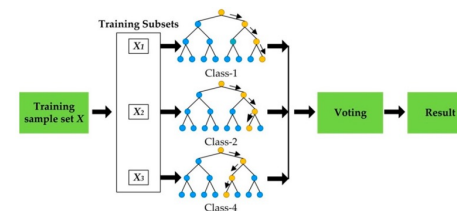


Results

Initial Findings:



Random forest multi-classifier :



Impact:

Multi-Class. model	Decision Tree	Logistic Regression	Random Forest
Accu.	90.3%	87.1%	96.77%
Mean Accu.	83.63%	84.3%	87.6%
STD.	± 4.66%	± 2.48%	± 5.5%

Perspectives

Helix Lab Experience:



Outcomes:



Future Ambitions:

