

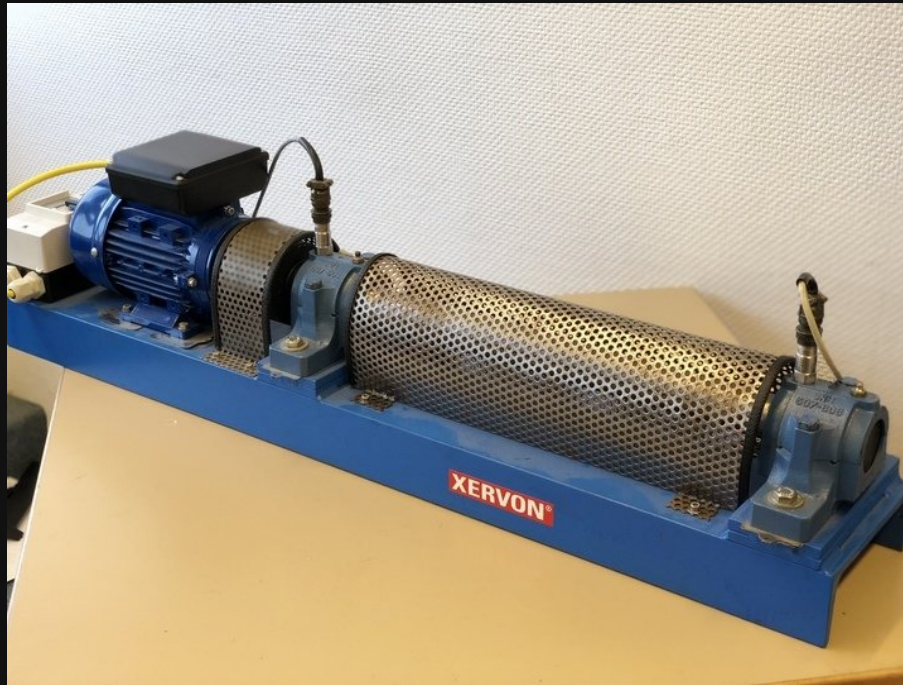


**EXTRA-CUTE CROCODILES**

## TARGET GROUP

Engineering industry companies  
whoever wanna have **customized**  
IOT system featuring **efficient** AI in  
their specific tasks

**2-DAY-CLIENT!**



## PROBLEMS

detect:

- bearing
- unbalance
- hammering
- loosen screws

without a human expert

**IS THIS ONLY XERVON'S PROBLEM?**

nope, the patterns is common in industries.



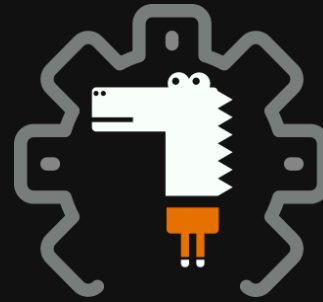
WHEN WE ARE TALKING  
ABOUT THESE, WHAT WE ARE  
REALLY TALKING ABOUT?





## SAYS

- efficient problems solving
- convenience

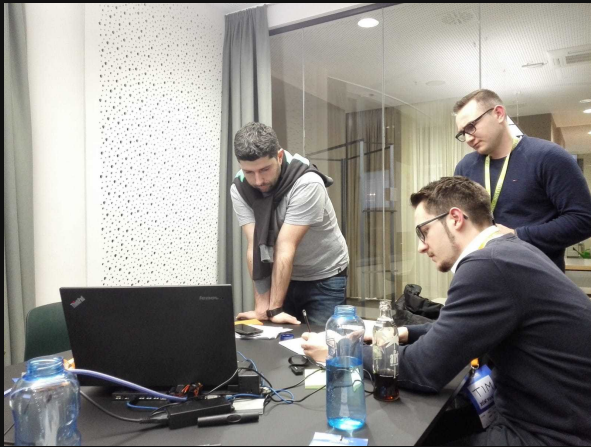


## PROVIDES

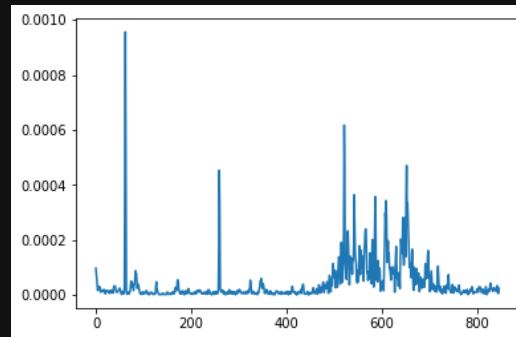
- **Proper** Machine Learning Algorithms
- **Intuitive** self-designed IOT super-hacking

# IMPLEMENTATION - CHAPTER AI

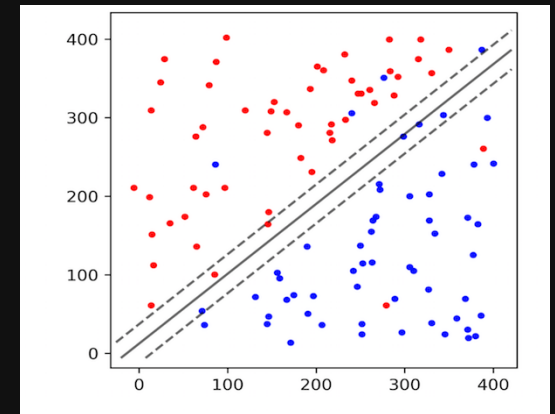
- carefully understanding the tasks and data



- signal transformation, data preprocessing, features extraction (200 sample sets)



- analysis the features and choose SVM and RNN as ML algorithms

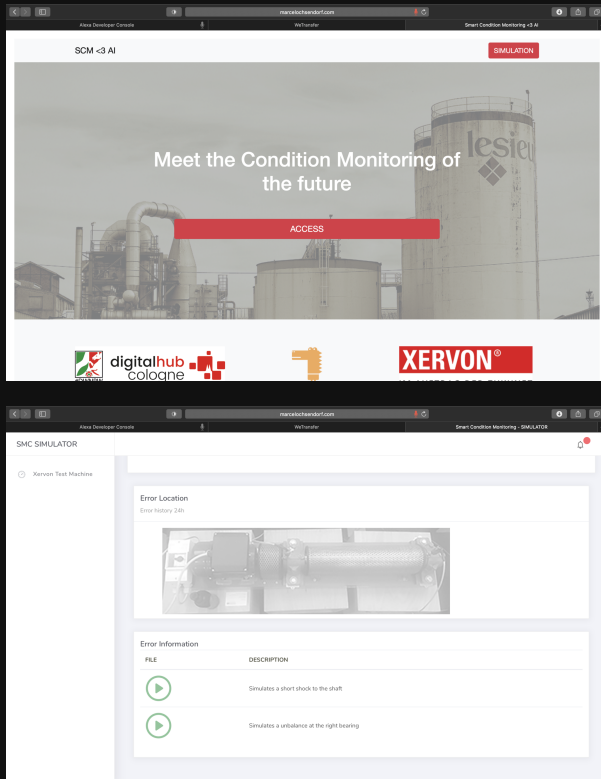


**RESULT:**

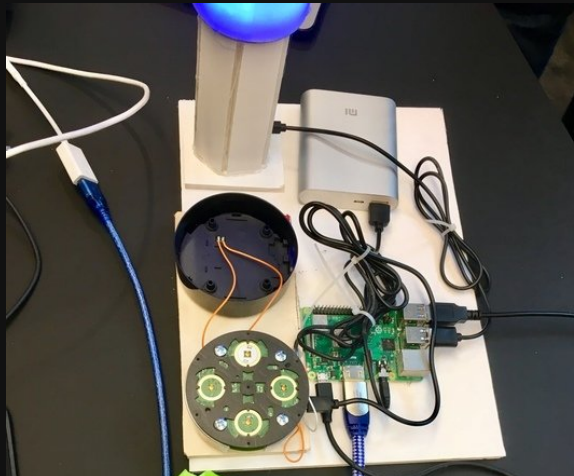
**AUTOMATIC DETECTION ON HAMMERING**

# IMPLEMENTATION - CHAPTER IOT

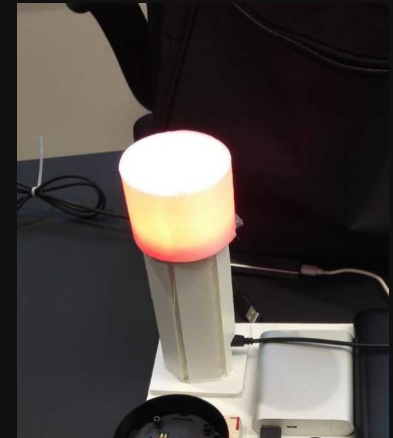
- monitor webapp



- Alexa and Pi super-hack



- self-made Hue light



**RESULT:**  
**HYBRID NOTIFICATION SYSTEM**

Marcel, Weiling, Vasil & Paul say  
**THANKS**

save  
**TIME,  
RESOURCE,  
ENERGY,  
MONEY**

in a Crocodiles' way

