

### YANMAR R&D EUROPE

Energy & Digital Solutions (EDS)



### NICE TO MEET YOU



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PhD @ UniFl



- Application of AI for Anomaly Detection in Energy Generation Systems
- ❖ Senior **ML** Engineer @ **YANMAR**



❖ MSc Automation Engineer









**PyGAD** 







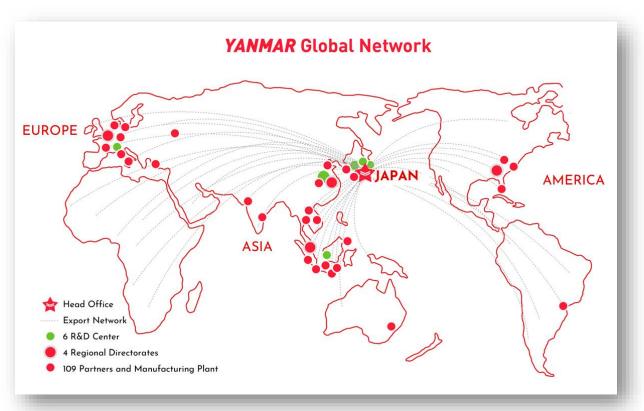




### HAVE YOU EVER MET YANMAR?

☐ YANMAR is a Japanese diesel engine and machinery manufacturer.

☐ YANMAR engines are used in a wide range of applications







# TECHNOLOGY DOMAINS





## ARTIFICIAL INTELLIGENCE

Machine Learning

Deep Learning

Anomaly Detection

Time-series Forecasting

#### ENERGY MANAGEMENT SYSTEMS

EMS- industry/Building/Homes
Optimization algorithms

### **CLOUD PLATFORM**

AWS Databases IoT



# AI & MACHINE LEARNING

Tech Domain | List



Data Analysis and Visualization pandas



Machine Learning



Deep Learning, Neural Networks



Time Series Forecasting

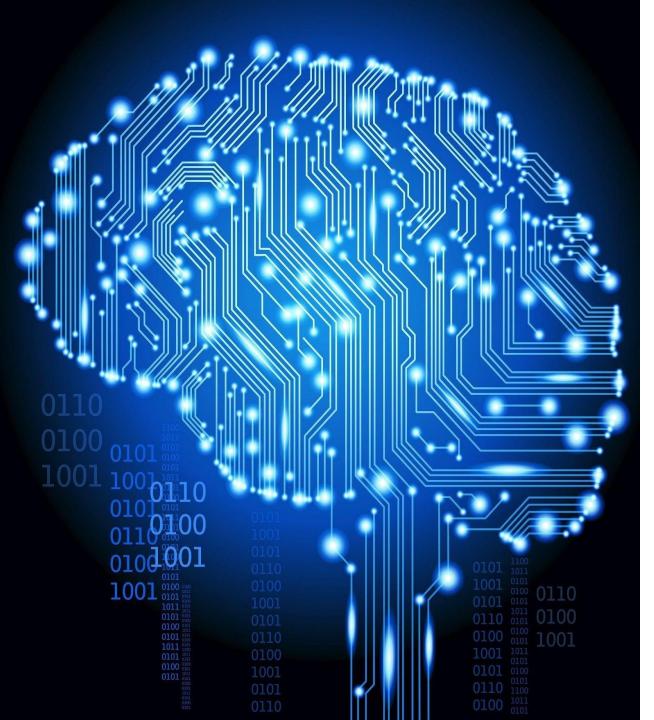


**Anomaly Detection/Prediction** 



Containerization







# **BANK CHURN PREDICTION**





### SIMPLE CLASSIFICATION PROBLEM

- □ The problem is about **predicting** whether a customer will change his/her bank, something known as "churning"
- ☐ The best way **to avoid customer churn** is for a company to know its customers truly. This includes **identifying customers at risk of churning** and working to improve their satisfaction.



https://github.com/PierD86/bank-churn-prediction/tree/main/notebooks