

# EPMS

## ENGINE PREDICTIVE MAINTENANCE SYSTEM

Keberth

# THE DATASET

FD001

HPC degradation  
Sea Level condition  
21 different sensors

# THE DATA SENSORS

T30 Total temperature at HPC outlet

T50 Total temperature at LPT outlet

Ps30 Static pressure at HPC outlet

# **THE MODEL**

## **XGBOOST REGRESSOR**

RUL

**Remaining Useful Life**

RISK\_LEVEL

**HIGH, MEDIUM, LOW**

# MODEL FIT

MAE

TRAIN: 16.85

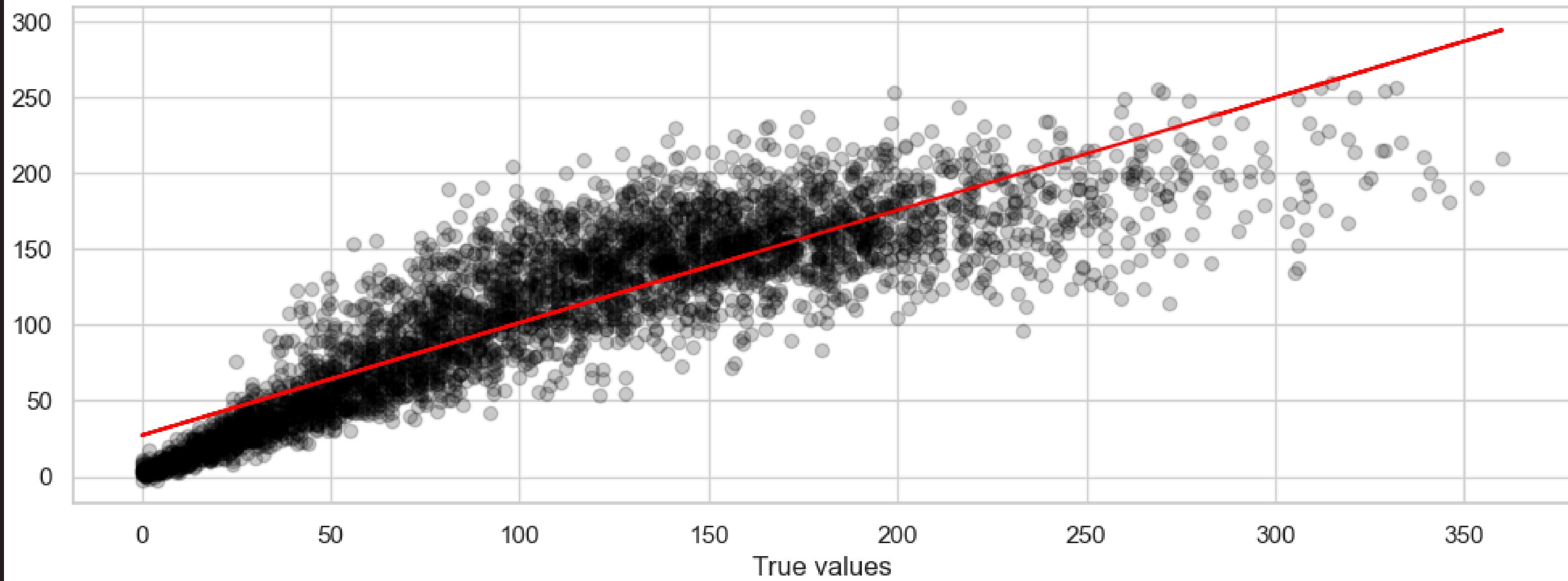
TEST: 23.57

R<sup>2</sup>

TRAIN: 0.876

TEST: 0.763

xgbr tts True vs Predicted (Test set)



# **HOW IT WORKS?**

## **STREAMLIT APP DEMO**

# THANKS

Keberth