

# EPMS

## ENGINE PREDICTIVE MAINTENANCE SYSTEM

# THE DATASET

FD001

HPC degradation  
Sea Level condition  
21 diferent 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**

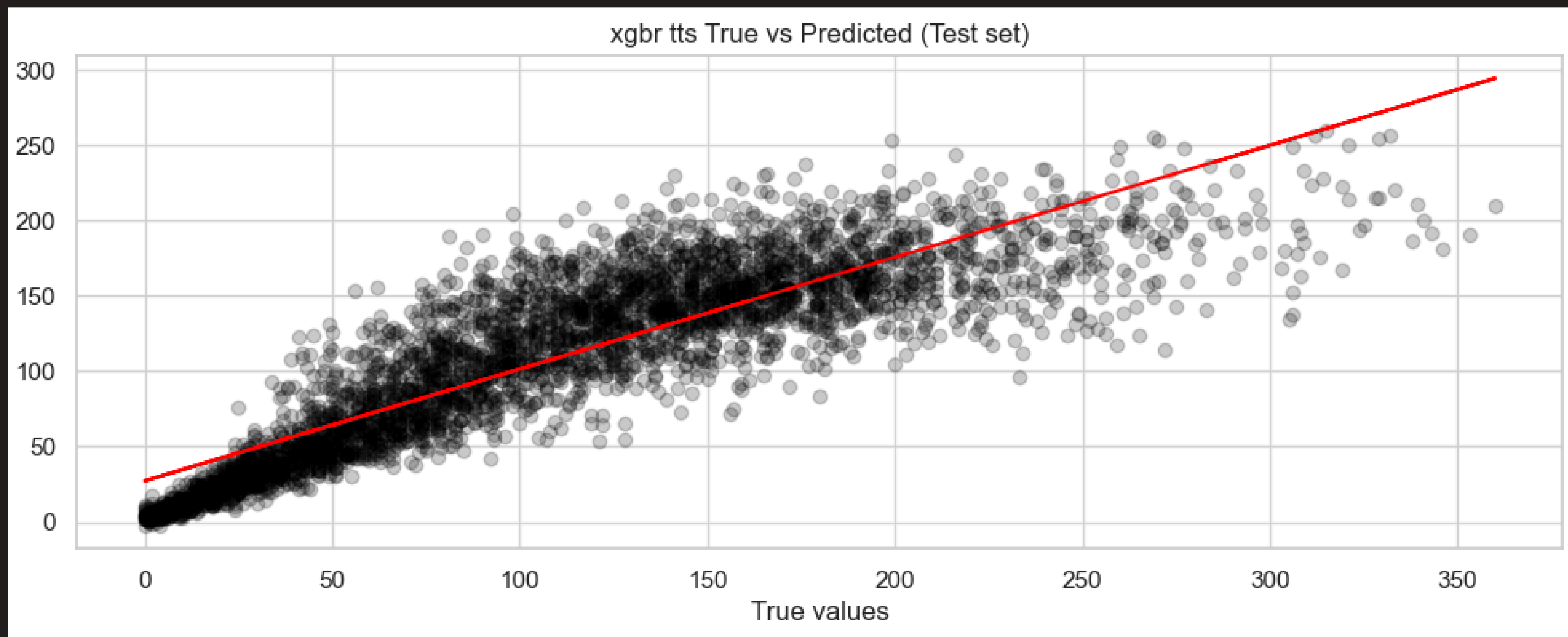
**TRAIN: 16.85**

**TEST: 23.57**

**R<sup>2</sup>**

**TRAIN: 0.876**

**TEST: 0.763**



# HOW IT WORKS?

## STREAMLIT APP DEMO

# THANKS

Keberth