MATRYCS

ECO-CHAT

Hackathon

Summer Edition 2023

Team MEA

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Evelyn Mazzarano
Marco Perini

ENERGY AWARENESS IN BUILDINGS

ECO-VISUALIZATION

Home
Process Data
Upload Data
Projects
Results
Tips

We improve buildings for the future!

About Matrycs project:

we collect big data to analyze the building energy consumption and develop a ML model to improve buildings and their energy efficiency!

About Eco-Visualization:

Eco-Visualization is a desktop app to read the DataSet and gives as an output an accurate prediction model and tips to save environment and improve technologies!

read more

UPLOAD DATA

Home

Process Data

Data Cleaning

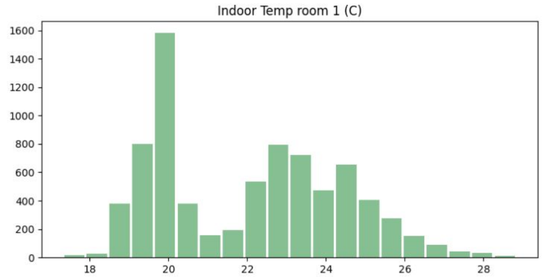
Statistical Study

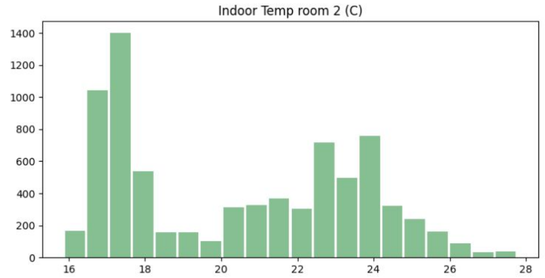
Data Augmentation

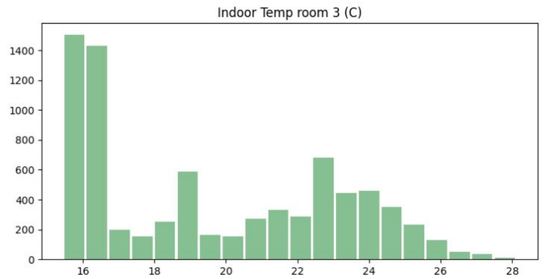
Validation For Forecasting Models

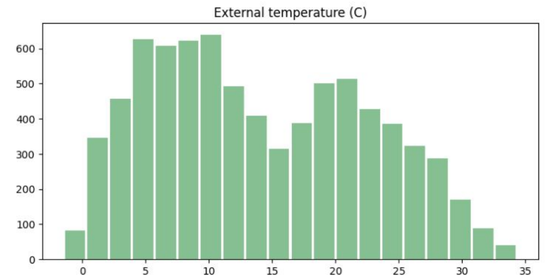
How Eco-Visualization process data:

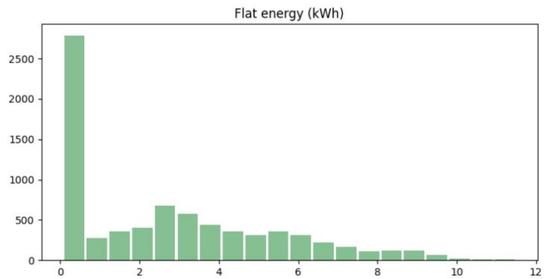
Data Cleaning

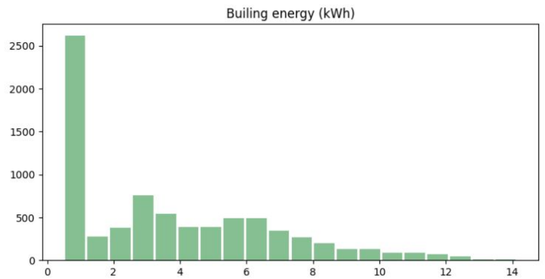












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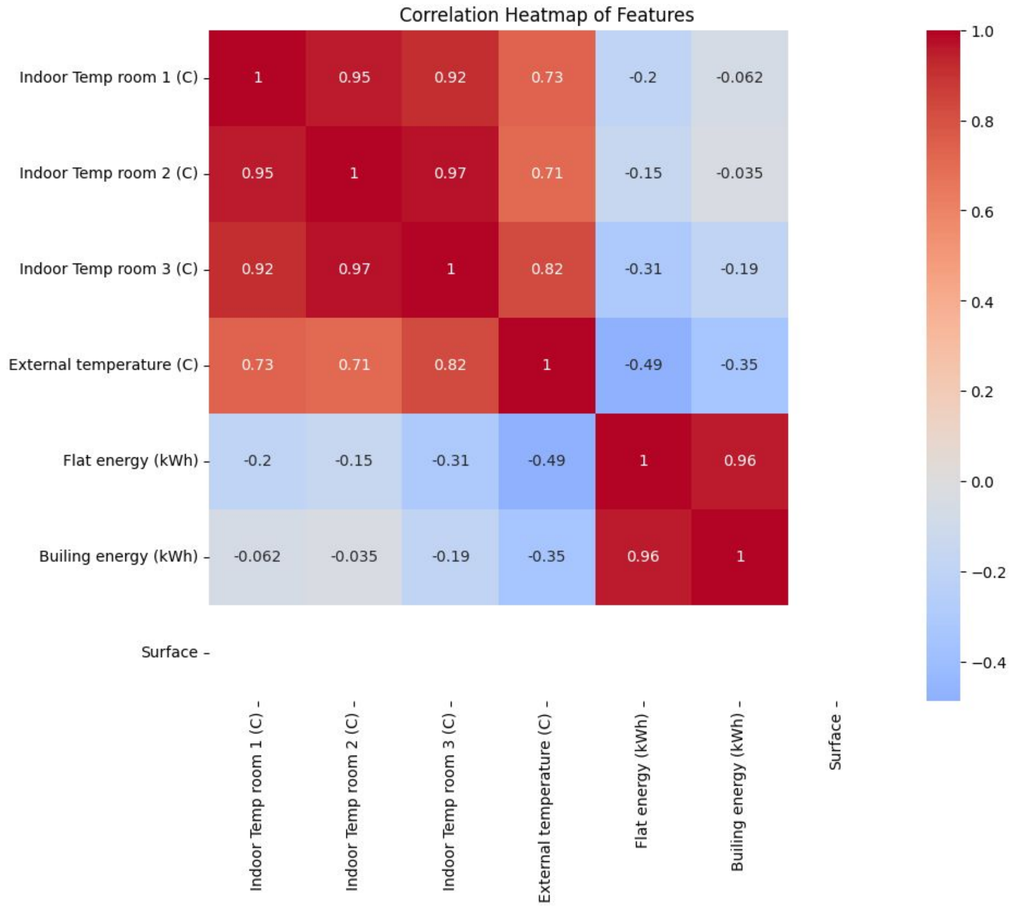

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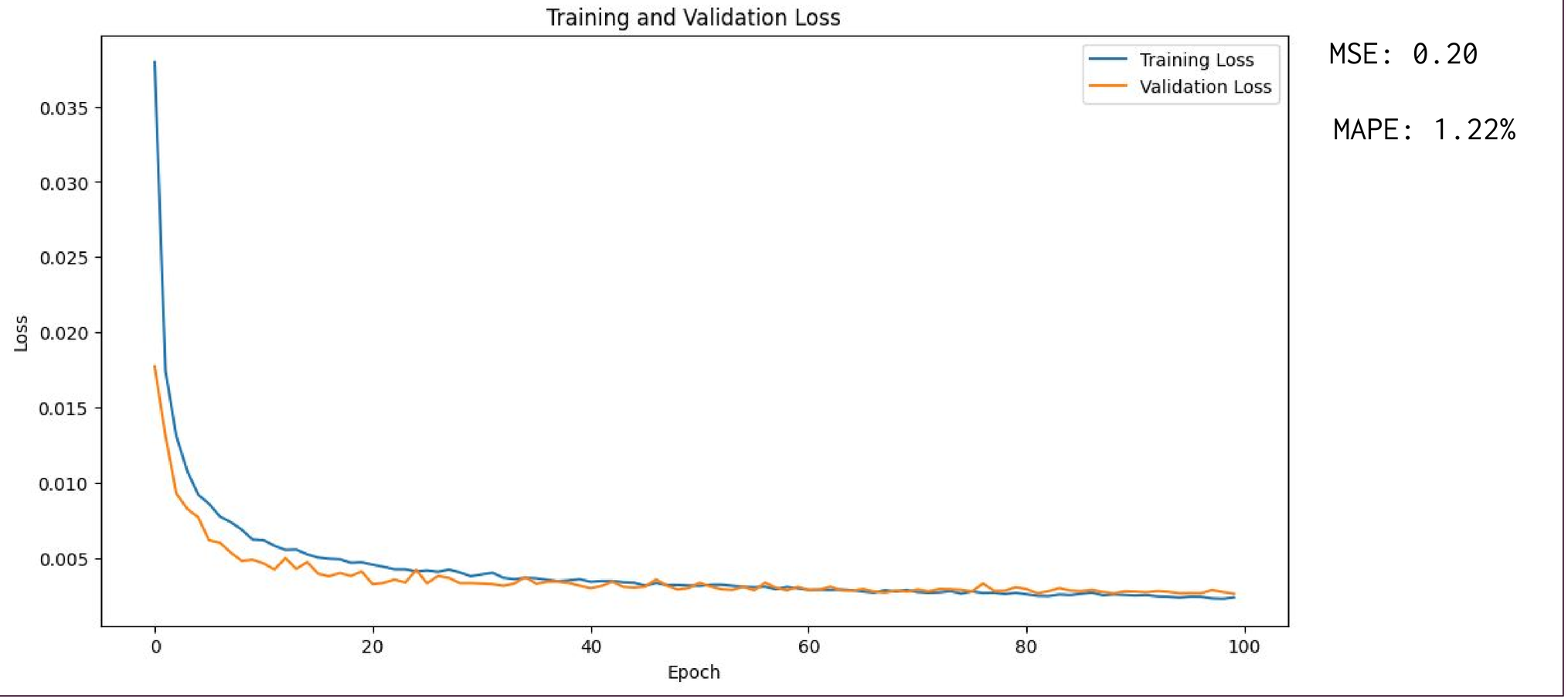
How Eco-Visualization process data:

Validation for forecasting models



MSE: 0.20

MAPE: 1.22%

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Name of the Data Set	·Energy consumption of a flat and building ·Indoor and outdoor temperature
Note	Energy/Temperature Prediction model
DatiEnergyTemp.csv	
UPLOAD DATA	

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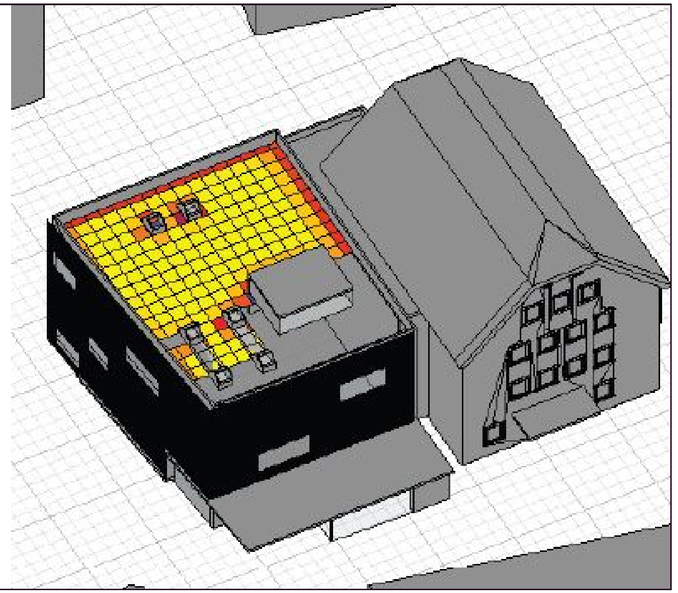
Improving energy performance of buildings with predictive capabilities for energy demand.

↓

Energy production from PV system

↓

Based on a prediction model



View More

LOADING...

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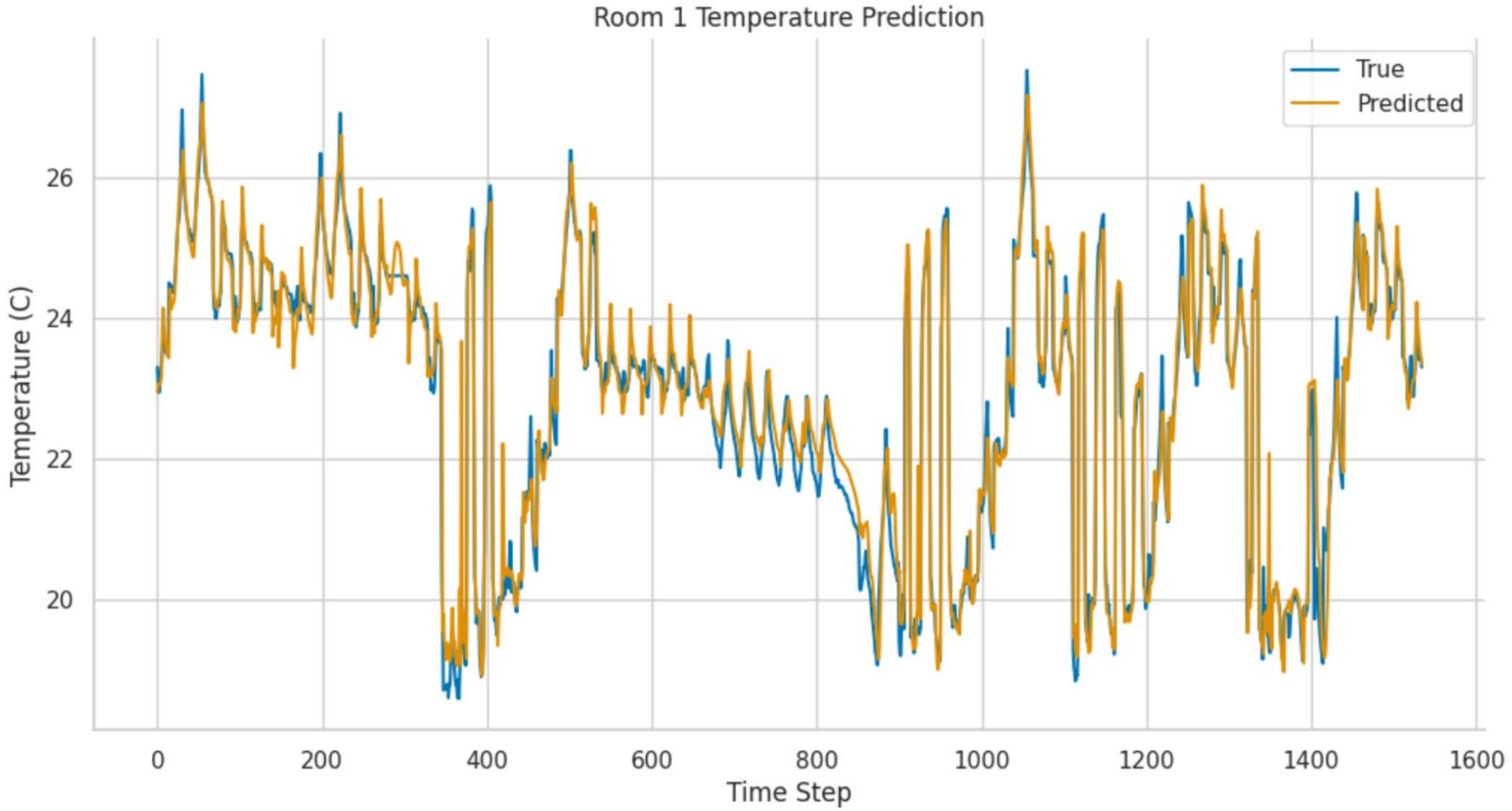
Observation, 1 Data Set



save

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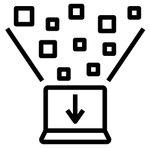
GREEN LEASE!

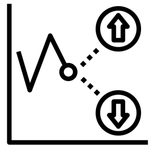
Cooperation between owners and
tenants related to energy conservation and
environmental considerations in the lease agreement

Contract to match incentives
between owners and tenants in energy-saving
renovations:

- Distribution rules for contract power reduction effect by operation
- Distribution rules between building owners and tenants on the effect of reducing utility costs by capital investment of building owners
- Set your own time-specific rates in the building
- Setting the maximum power usage per tenant



DATA ACQUISITION



PREDICTION MODEL

SHARING DATA

RAISING AWARENESS

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Thank you for your attention!