

OBJECTIVE

Enhance the current building control system with weather data from FMI using AI models to **optimize energy consumption**



→ A more sustainable development solution

COMPANY



ASSEMBLIN

Company developing automation systems for buildings



DIGI-SALAMA

Metropolia Project Venture

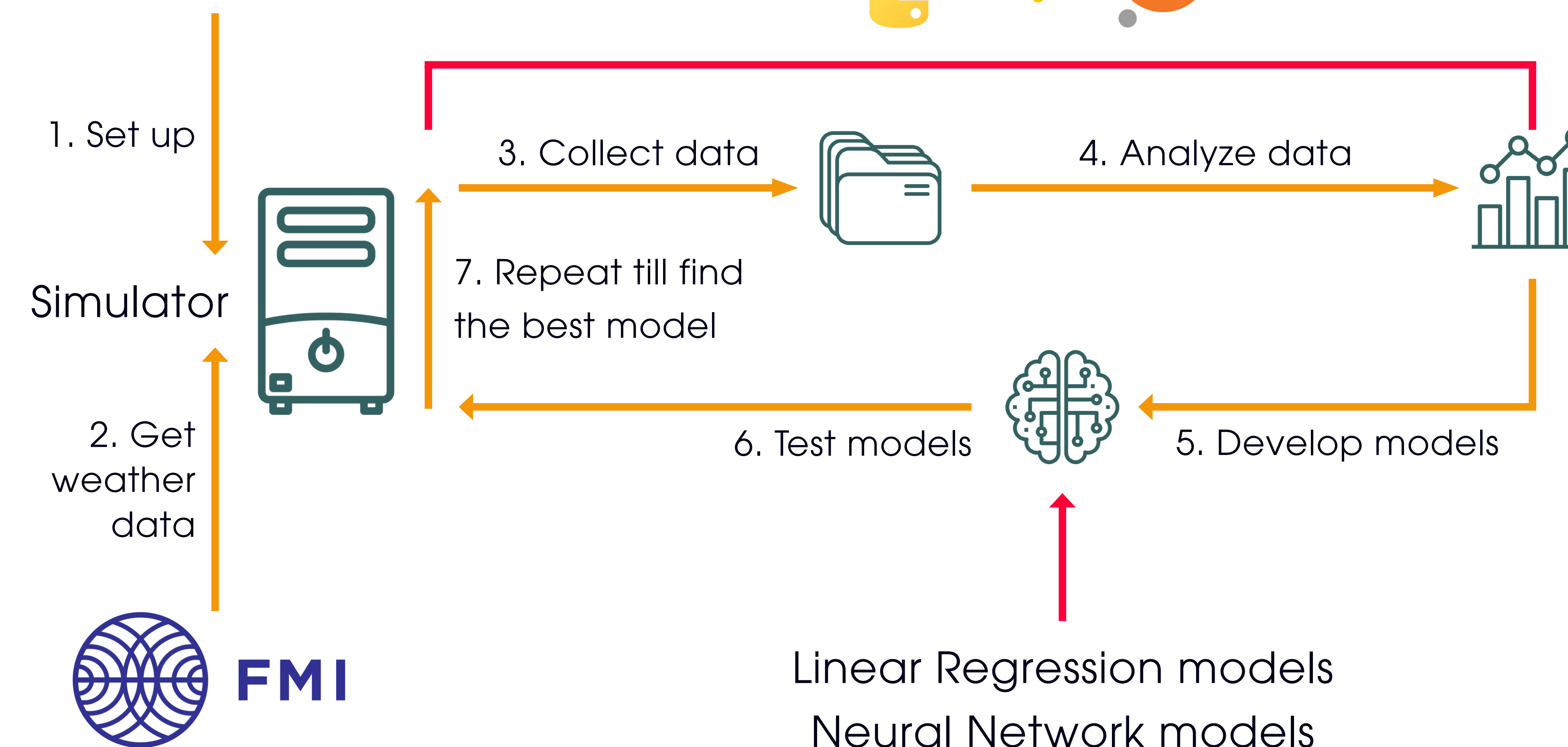
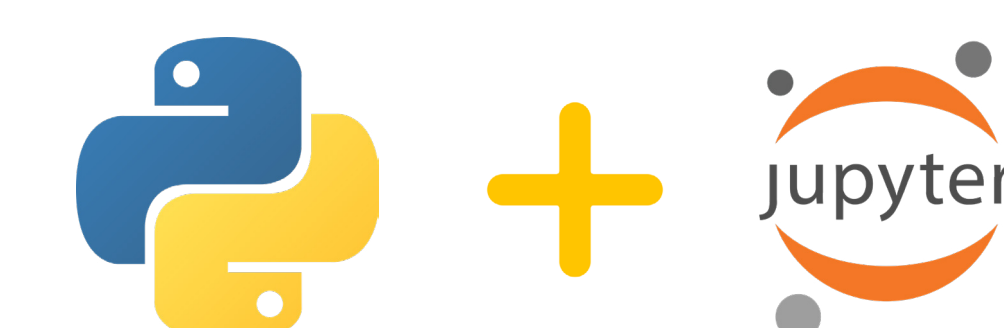


FMI






Government agency focusing on weather related subject

METHODS

Assemblin



TASK IN PROGRESS

-  Include solar energy radiation feature, explore time series models
-  Test models and collect more data on Assemblin's simulator
-  Further Improve AI prediction models and compare models with criteria
-  Run, evaluate models on Metropolia's Myllypuro Campus
-  Integrate AI algorithms into building's loop control system

FIRST MODEL

FEATURES



Room Temperature



Original Setpoint



Outside Temperature



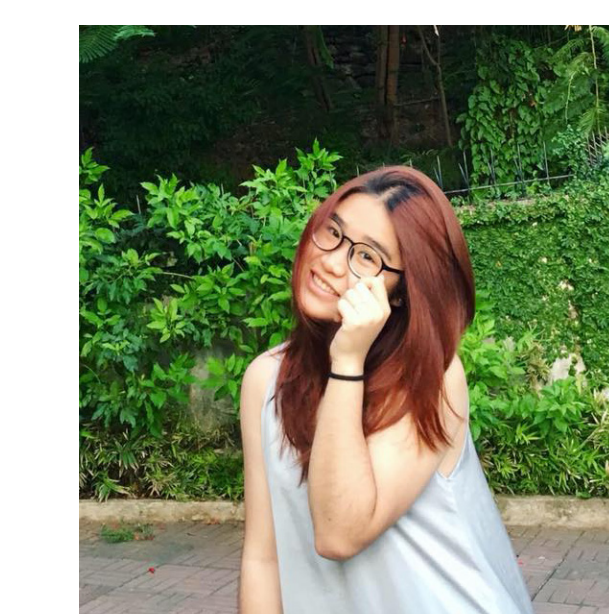
Weather Forecasts

LABEL



Correct Setpoint

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