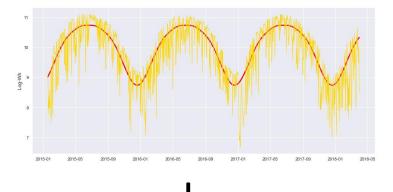
## Predicting Solar Energy Generation Using Text Based Weather Forecasts

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## 1. Data Preprocessing

Historical data about the power generation of a solar power plant



# Texts from two archives of weather forecasts

Schweizerische Eidgenossenschaft Confédération suisse Confederazione Svizzera Confederaziun svizra Bundesamt für Meteorologie und Klimatologie MeteoSchweiz

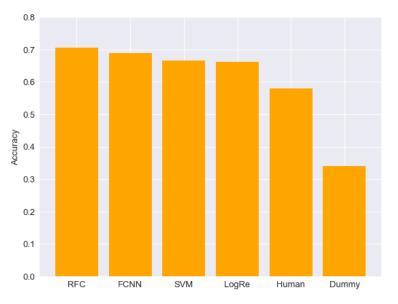
#### www.meteoschweiz.admin.ch



www.srf.ch/meteo

## 2. Training Models

Training different models to predict the power generation based on the text of weather forecasts



Best model: Random Forest Classifier (71% accuracy to predict the power generation within 3 classes (below average, average, above average))

## 3. Predict Power Generation

Retrieve weather forecasts and predict the solar power generation (date and power plant-specific)

