Al Forecasting (0.1)

Download OpenAPI specification: Download

Basic API to train and obtain forecasts from AI Forecasting

Root

Root Endpoint: provides info on the available endpoints

Returns:

```
"message":"Welcome to the AI Forecasting API!",

"endpoints": {
    "/train": "Train the stack ensemble model on the provided data.",
    "/forecast": "Make predictions using the previously trained stacking en
    "/model-info": "Get information about the trained model."}
```

Responses

> 200 Successful Response

GET /

Response samples

200

Content type application/json

Train Model

This API Endpoint receives historical training data in the form of a JSON file, which contains:

'time', a list of strings with datetime information of the time series, freq = 15min

'load', a list of floats, which corresponds to a net-load time series of a given network point

The model is trained with the POSTed data and the model is stored

The API responds with error metric scores (MAE, SMAPE and RMSE) obtained when evaluating the model's forecasts using a test dataset (a subset of the original training set)

REQUEST BODY SCHEMA: application/json

load required	Array of numbers (Load)
time required	Array of strings (Time)

Responses

- > 200 Successful Response
- > 422 Validation Error

POST /train

Request samples

Payload

Content type application/json

```
{
    "load": [
        20.2,
        50,
        33.4,
        0.6
    ],
    "time": [
        "01/01/2019 00:00",
        "01/01/2019 00:30",
        "01/01/2019 00:45"
    ]
}
```

Response samples



null

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Obtain Forecast

This API Endpoint receives historical data used to forecast the day-ahead load profile, in the form of a JSON file which contains:

'time', a list of strings with datetime information of the time series, freq = 15min;

'load', a list of floats, which corresponds to a net-load time series of a given network point;

The forecasts are generated using the given data and a previously trained model. If no model has been trained, an error is raised.

The API responds with the obtained day-ahead forecast

REQUEST BODY SCHEMA: application/json

past_data
required

Array of numbers (Past Data)

Responses

- > 200 Successful Response
- > 422 Validation Error

```
POST /forecast
```

Request samples

Payload

```
Content type application/json
```

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Response samples

200

422

Сору

null

Get Model Info

This endpoint provides the training status of the model and the timestamp when it was last trained

Responses

> 200 Successful Response

GET /model-info

Response samples

200

Content type application/json

Сору

null