

AI Forecasting (0.1)

Download OpenAPI specification:

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Basic API to train and obtain forecasts from AI Forecasting

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

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```
{
  - "load": [
    20.2,
    50,
    33.4,
    0.6
  ],
  - "time": [
    "01/01/2019 00:00",
    "01/01/2019 00:15",
    "01/01/2019 00:30",
    "01/01/2019 00:45"
  ]
}
```

Response samples

200**422**

Content type

application/json

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null

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`

<code>past_data</code> <code>required</code>	Array of numbers (Past Data)
<code>time</code> <code>required</code>	Array of strings (Time)

Responses

> **200** Successful Response

> **422** Validation Error

POST `/forecast`

Request samples

Payload

Content type
`application/json`

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```
{
  - "load": [
    20.2,
    50,
    33.4,
    0.6
  ],
  - "time": [
    "01/01/2019 00:00",
    "01/01/2019 00:15",
    "01/01/2019 00:30",
    "01/01/2019 00:45"
  ]
}
```

Response samples

200

422

Content type

application/json

null

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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

null

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