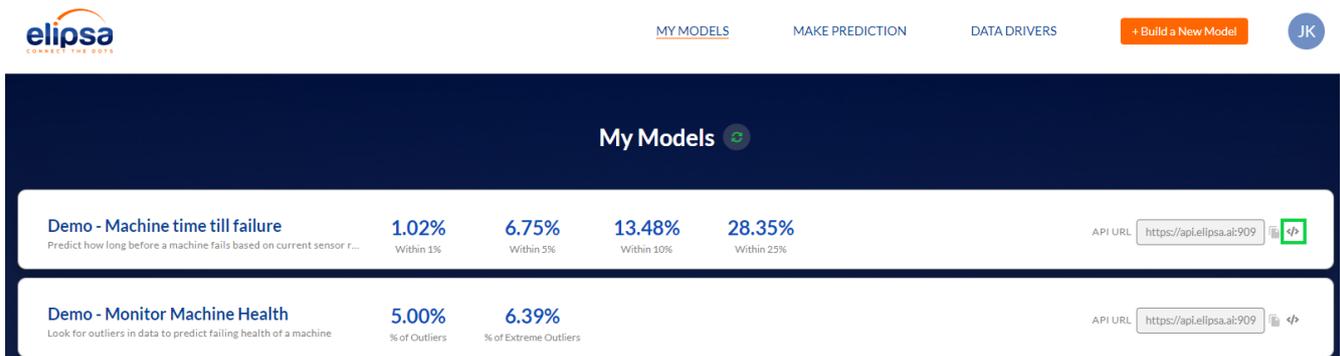


MAKE PREDICTIONS ELIPSA API

The following is a step by step guide to walk users through making predictions via the elipsa APIs

To get started click on My Models from the top menu to bring you to your list of saved models. Only saved models will have access to the Elipsa API



The screenshot shows the Elipsa web interface. At the top, there is a navigation bar with the Elipsa logo, 'MY MODELS', 'MAKE PREDICTION', 'DATA DRIVERS', a '+ Build a New Model' button, and a user profile icon 'JK'. Below the navigation bar is a dark blue header with 'My Models' and a dropdown arrow. The main content area displays two model cards. The first card is titled 'Demo - Machine time till failure' and shows four performance metrics: 1.02% (Within 1%), 6.75% (Within 5%), 13.48% (Within 10%), and 28.35% (Within 25%). The second card is titled 'Demo - Monitor Machine Health' and shows two metrics: 5.00% (% of Outliers) and 6.39% (% of Extreme Outliers). Both cards include an 'API URL' field with the value 'https://api.elipsa.ai:909' and a green API icon.

Model Name	Metric 1	Metric 2	Metric 3	Metric 4	API URL
Demo - Machine time till failure	1.02% Within 1%	6.75% Within 5%	13.48% Within 10%	28.35% Within 25%	https://api.elipsa.ai:909
Demo - Monitor Machine Health	5.00% % of Outliers	6.39% % of Extreme Outliers			https://api.elipsa.ai:909

The My Models page will list your saved models like the image above. By clicking on the API icon (in green box above), a popover will appear specifying the details of the API endpoint for your model.

With the API details, user can make future predictions on streaming data directly from their 3rd party applications. Predictions can be made programmatically or directly through our 3rd party partner systems.

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MAKE PREDICTIONS ELIPSA API

Upon clicking the API icon, the following will display:

API Summary

Model: Demo - Monitor Machine Health

API URL: <https://api.elipsa.ai:9090/graphdb/api/v1.0/ml/scenario/predictions/e9972e98-51c9-11eb-9485-0acec021ad7c>

API Type: POST

Sample JSON input:

```
{
  "Data": [
    {
      "setting_1": "",
      "T2": "",
      "T24": "",
      "T30": "",
      "T50": "",
      "P2": "",
      "P15": "",
      "P30": "",
      "NF": ""
    }
  ]
}
```

Sample JSON response:

```
{ "API_Key": "e9972e98-51c9-11eb-9485-0acec021ad7c", "Prediction": "", "Confidence": "" }
```

Every model saved in the elipsa platform is assigned a unique API endpoint to make future predictions.

If you are connecting elipsa to one of our partners, please refer to your 3rd party IoT system regarding steps on how to make an API call.

Simply copy the API URL above into the system that you are using to call the API. In many instances, this will be the system that stores your IoT data. The Sample JSON input above shows the format of the data that needs to be sent to your particular model. The field names will be the same as those as the columns in the csv file used when you created your model.

When a connection to the endpoint above is made with a POST command, utilizing the input data format specified, the API will return information such as the prediction from the model and the confidence of this prediction.

These insights can then be saved in your 3rd-party system to trigger alerts, display on a dashboard, etc,

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