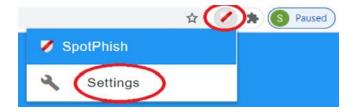
# Modular Spotphish

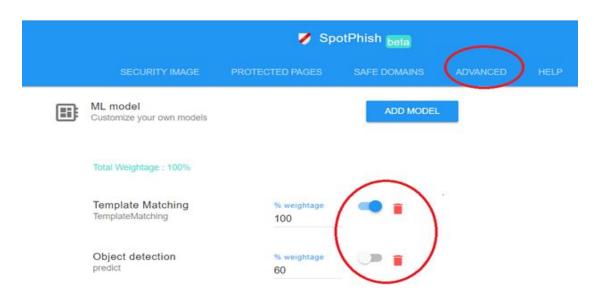
Spotphish has been made modular, with this release ML models can be picked and chosen on the fly. Models can be disabled, enabled and new models can be added online.

#### 1. Enable/disable model

Go to Settings

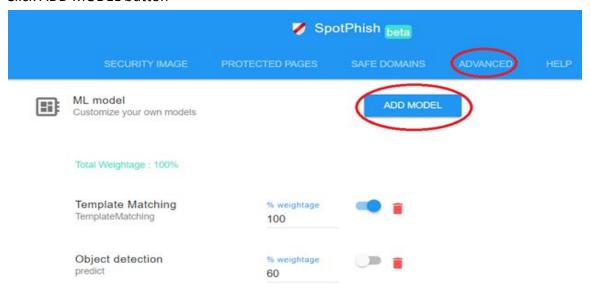


Go to ADVANCED

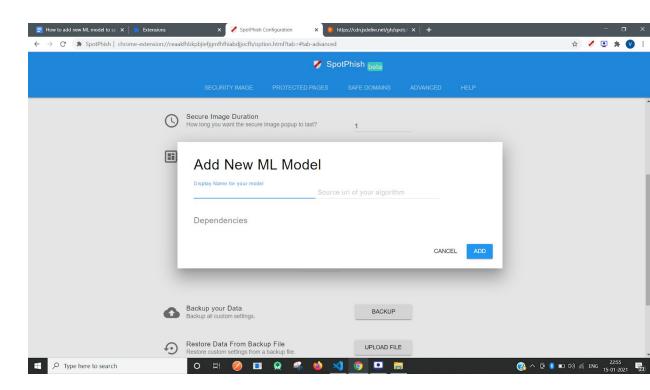


## 2. Add new model

Click ADD MODEL button



Popup for add model

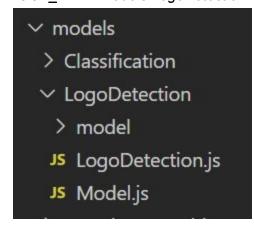


Fields:

- Display name for your model.(Required)
- Source Url of the algorithm. (Required)
  - o It is the github url of the directory in which your algorithm is kept.
  - Name of the algorithm file must be Model.js. Your directory must contain the file with the same name as mentioned above.
  - If you maintain versioning, the latest version of the files will be picked. Otherwise, files from the default branch will be picked.
  - Structure of your Model.js file:

Note: words highlighted in red should be kept as it is. (case sensitive)

- All local paths in your algorithm must be relative to the root directory. Use the constant ROOT\_DIR to point to the root directory.
- Eg. If your project has a models folder in the root directory. Then
  to access LogoDetection.js in Model.js, Use the path
  ROOT\_DIR+"/models/LogoDetection/LogoDetection.js"



- You will see the class name which is exported from your algorithm
- Dependencies will be listed down(if any)

#### Note: A video is attached below the popup for your reference.

Display Name for your model LogoDetection	Source url of your algorithm  https://github.com/vijay-coriolis/vijay-corioli
class LogoDetection 🛇	Predict function
Dependencies	
https://cdn.jsdelivr.net/gh/vijay-coriolis	/vijay-coriolis.github.io@v6/Demo.js
https://cdn.jsdelivr.net/npm/@tensorfle	ow/tfjs@2.0.0/dist/tf.min.js

• Click Add, ML model is added in the list

# 3. Assign weightage to models

- Total model weights should be 100%
- Distribute total weights (100%) to the enabled models

## 4. Train models

- Train models it can be template matching, classification, object detection or any other model. Models can be trained using any algorithm and any tool.
- Trained models should accompany a javascript file. Here is the structure of the JS file.
  - a. A Class should be exported
  - b. Class must have a predict function.

Input: src of img for which model will predict

Output: json format output

```
{
    site: <name of predicted class> (string),
    confidence: <confidence %> (int),
    time_taken: <time taken to predict> (int),
    image: <base64 url of predicted image>
};
```

- c. Import your dependent is files, libraries, modules in this file.
- d. If those dependent files, libraries, modules can not be imported and need to be injected then, specify them into a **Class level variable** named as **dependencies**
- e. Structure of your file:

Note: words highlighted in red should be kept as it is. (case sensitive)

- f. Don't forget to convert all your local paths relative to the root directory using ROOT\_DIR constant.
- g. If your dependent library is not delivered through cdn then download it, push it to your own github repo and specify in the dependencies array as ROOT\_DIR+<path to library> .