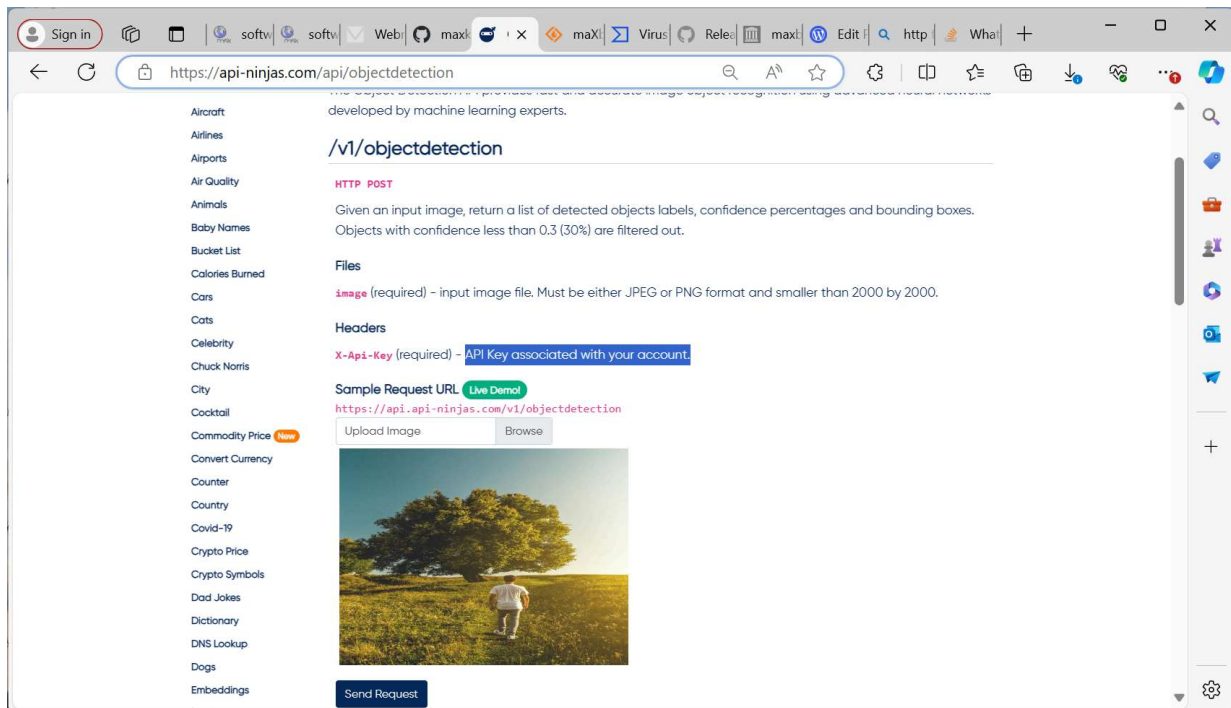


Code Blog

Object Detection API

👤 maxbox4 ⌚ April 27, 2024

📁 Code, Data Science, Machine Learning, maXbox, Nature, Object Detection
🔖 API, aws, azure, cloud, delphi, javascript, maXbox, programming, python ✎ Edit



We call it **AIM** and this stands for **Artificial Intelligence Machine**.

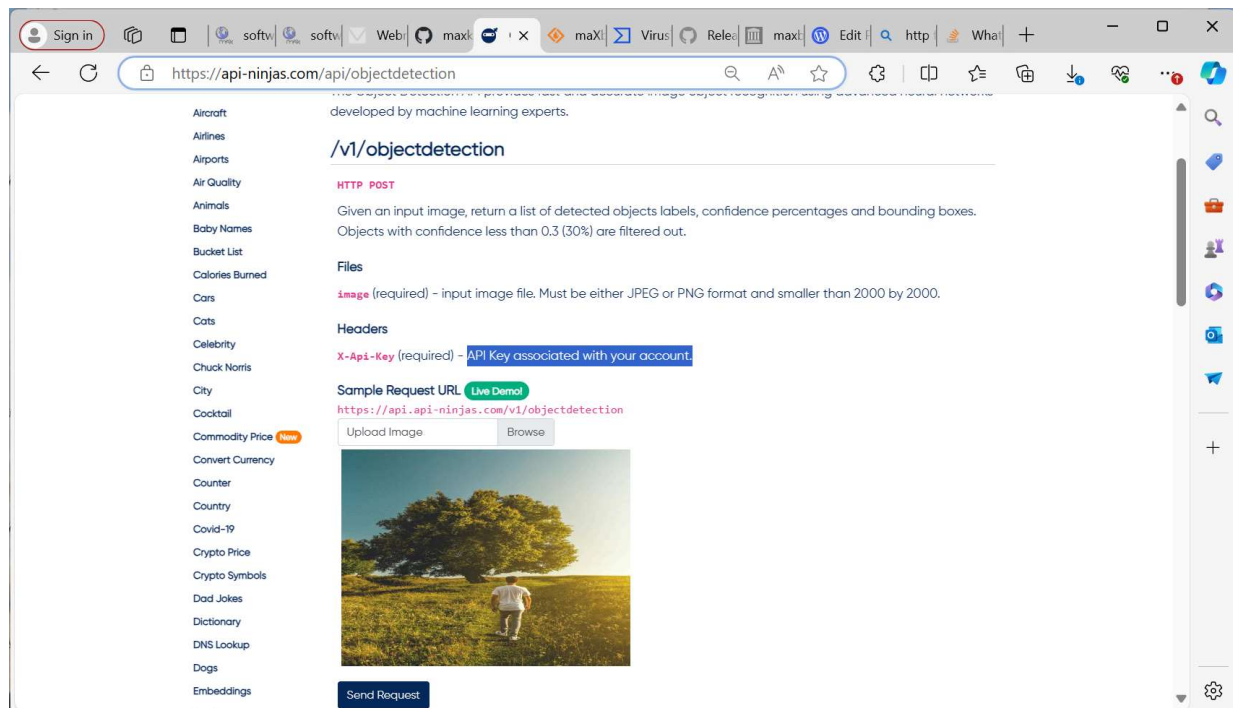
The Object Detection API provides fast and accurate image object recognition using advanced neural networks developed by machine learning experts.

<https://api-ninjas.com/api/objectdetection>

<https://github.com/maxkleiner/HttpComponent>

After you got you API-Key (API Key associated with your account) we need a httpcomponent of classes which are enable to post multipart-formdata-feed or streams. An HTTP multipart request is an HTTP request that HTTP clients construct to send **files** and data over to an HTTP Server. It is commonly used by browsers and HTTP clients to upload files to the server.

The content type “multipart/form-data” should be used for submitting forms that contain files, non-ASCII data, and binary data combined in a **single body**.



Live Demo of the API

So a multipart request is a request containing several packed requests inside its entity and we can script that:

```

1  function TestHTTPClassComponentAPIDetection2(AURL, askstream
2  var HttpReq1: THttpRequestC;
3      Body: TMultipartFormBody;
4      Body2: TUrlEncodedFormBody;
5  begin
6      Body:= TMultipartFormBody.Create;
7      Body.ReleaseAfterSend:= True;
8      //Body.Add('code','2','application/octet-stream');
9      Body.AddFromFile('image', exepath+'randimage01.jpg');
10     HttpReq1:= THttpRequestC.create(self);
11     HttpReq1.headers.add('X-Api-Key:'+AAPIKEY);
12     HttpReq1.headers.add('Accept:application/json');
13     try
14         if HttpReq1.Post1Multipart(AURL, body) then
15             writeln(HttpReq1.Response.ContentAsString)
16         else writeln('APIError '+inttostr(HttpReq1.Response.Stat
17     finally
18         writeln('Status3: '+gethttpcod(HttpReq1.Response.statusc
19         HttpReq1.Free;
20         sleep(200)
21         // if assigned(body) then body.free;
22     end;
23 end;

```

The result returns a return a list of detected objects labels, confidence percentages and bounding boxes. Objects with confidence less than 0.3 (30%) are filtered out.

😊 True

```
[{"label": "person", "confidence": "0.88", "bounding_box": {"x1": "329", "y1": "278", "x2": "423", "y2": "420"}}, {"label": "surfboard", "confidence": "0.46", "bounding_box": {"x1": "316", "y1": "407", "x2": "402", "y2": "424"}}, {"label": "skis", "confidence": "0.42", "bounding_box": {"x1": "316", "y1": "407", "x2": "402", "y2": "424"}}]
```

Status3: SC_OK

Discussion: Yeah the machine learnings got the person with high confidence and the surfboard is more likely than the skis, which are out of probability context; I mean do you see any sea or snow?!

mX5 🐞 executed: 27/04/2024 10:21:59 Runtime: 0:0:6.160 Memload: 74% use RemObjects Pascal Script. Copyright (c) 2004-2024 by RemObjects Software & maXbox5

Occasionally, some of your visitors may see an advertisement here, as well as a [Privacy & Cookies banner](#) at the bottom of the page. You can hide ads completely by upgrading to one of our paid plans.

UPGRADE NOW

DISMISS MESSAGE

👤 [maxbox4](#) ⌚ [April 27, 2024](#)

📁 [Code](#), [Data Science](#), [Machine Learning](#), [maXbox](#), [Nature](#), [Object Detection](#)
🔖 [API](#), [aws](#), [azure](#), [cloud](#), [delphi](#), [javascript](#), [maXbox](#), [programming](#), [python](#) ✎ [Edit](#)

Published by maxbox4

Code till the End [View more posts](#)

Leave a comment