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How?

- •Filter all supermarkets (maps.amsterdam.nl)
- Select closest pictures
- Keep middle tiles
- Classify supermarket: Yes or No?
- Model: Convolutional Neural network





maps.amsterdam.nl

Panorama

Panorama

De panoramas van de stad worden in een lijst getoond

```
- panorama's
```

- thumbnails

- recente panorama's

```
GET /panorama/
```

HTTP 200 OK

```
Allow: GET, HEAD, OPTIONS

Content-Type: application/json

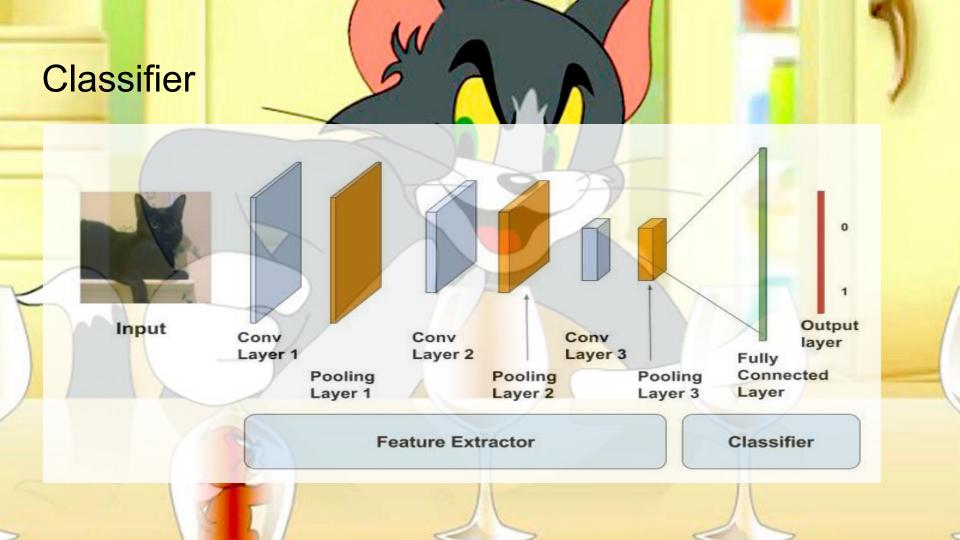
Vary: Accept

{
    "opnamelocatie": "https://api.data.amsterdam.nl/panorama/opnamelocatie/",
    "thumbnail": "https://api.data.amsterdam.nl/panorama/thumbnail/",
    "recente_opnames/alle": "https://api.data.amsterdam.nl/panorama/recente_opnames/alle/",
    "recente_opnames/2016": "https://api.data.amsterdam.nl/panorama/recente_opnames/2016/",
    "recente_opnames/2017": "https://api.data.amsterdam.nl/panorama/recente_opnames/2018/",
    "recente_opnames/2019": "https://api.data.amsterdam.nl/panorama/recente_opnames/2019/",
    "recente_opnames/2020": "https://api.data.amsterdam.nl/panorama/recente_opnames/2019/",
    "recente_opnames/2020": "https://api.data.amsterdam.nl/panorama/recente_opnames/2020/"
```

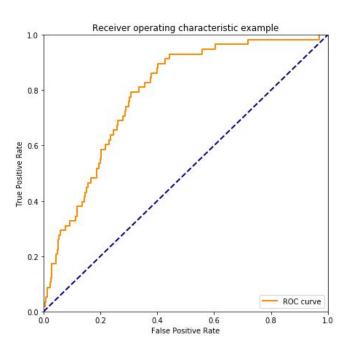
OPTIONS

GET

Keep middle 4 tiles!



Results



		Humans says	
		market	not market
Machine says	market	51 (6,4%)	292 (37,1%)
	not market	7 (0,9%)	438 (55,6%)

Examples (the good and the bad)



Correctly recognized as supermarket



Correctly recognized as not a supermarket

Incorrectly recognized as a supermarket



Unrecognized as a supermarket



