



Google Vision AI Code a LPR

@TgnDevs

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<https://www.youtube.com/watch?v=y-oVRpLtgbk>

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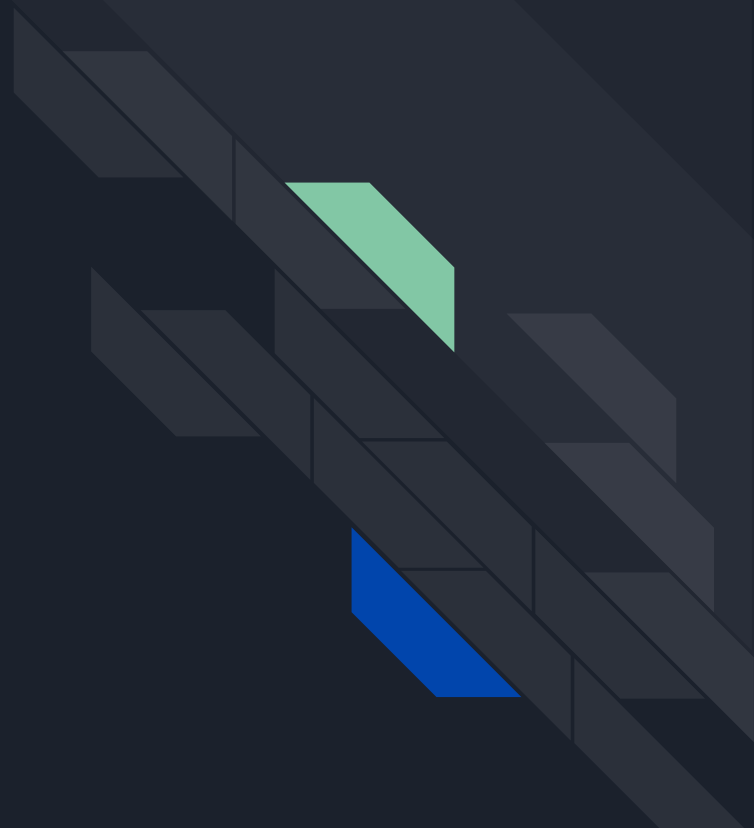


Avinguda Països Catalans



Index

- Motivation
- AI Introduction
- Google Vision AI
 - Functions
 - Test API REST
- Code the LPR
- Pros & Cons



Motivation

Scenario: I/O Access Control

- ID: License Plate

Possible Solutions:

- Neural Labs ©
- Google Vision AI

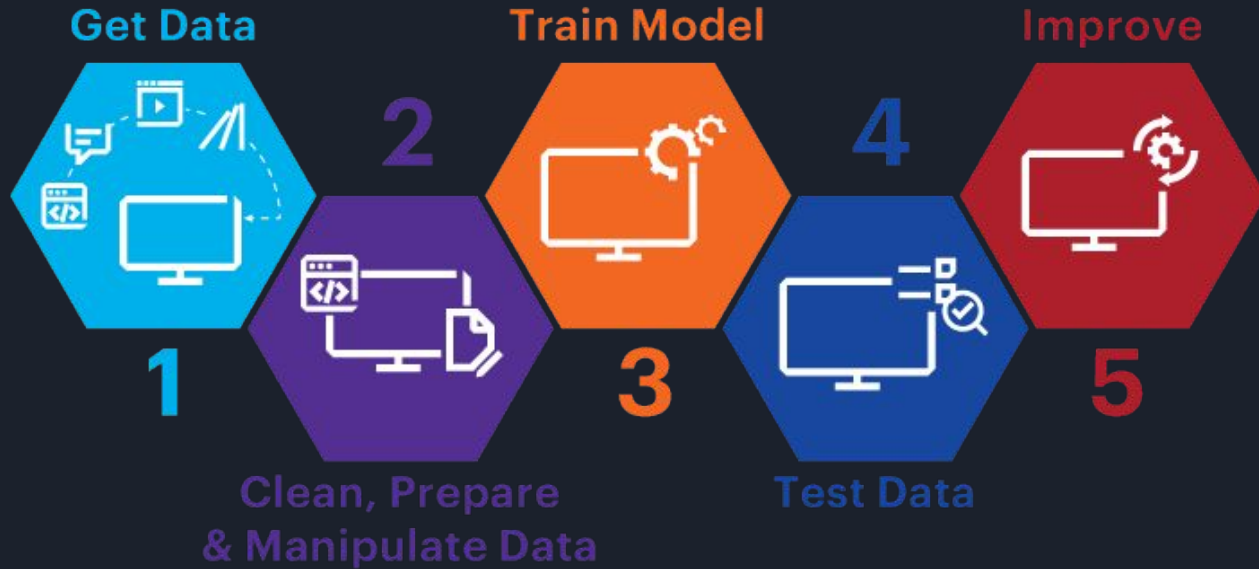




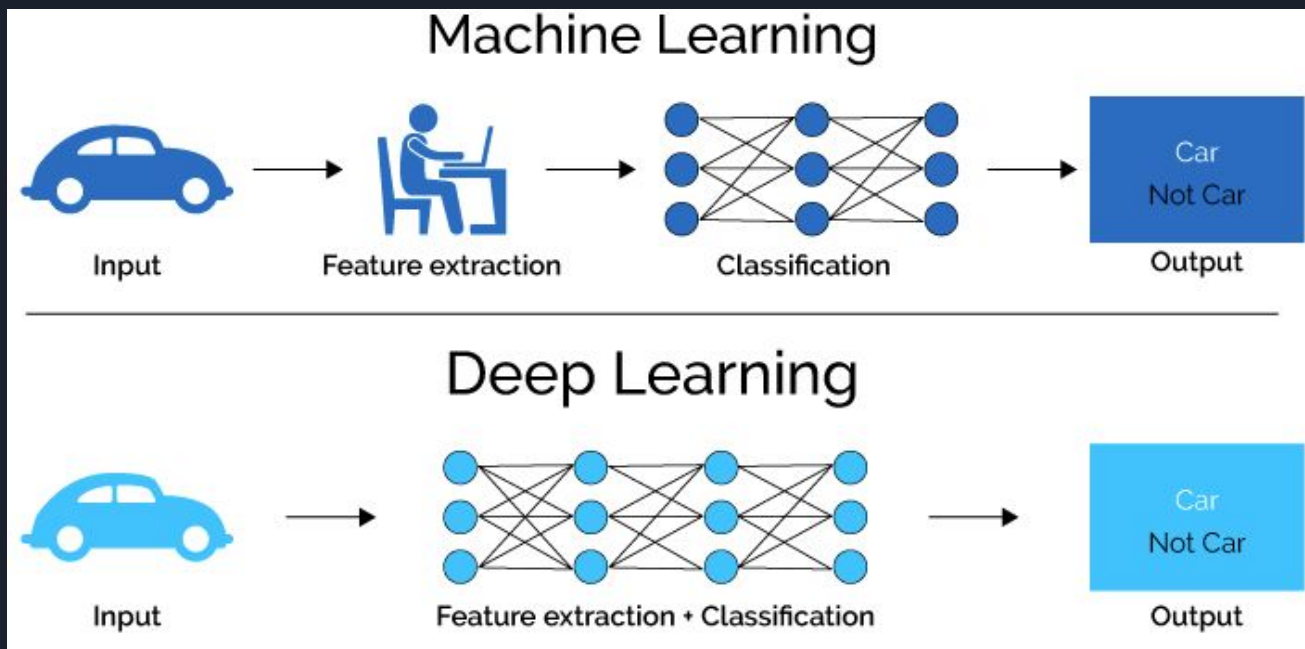
Tools



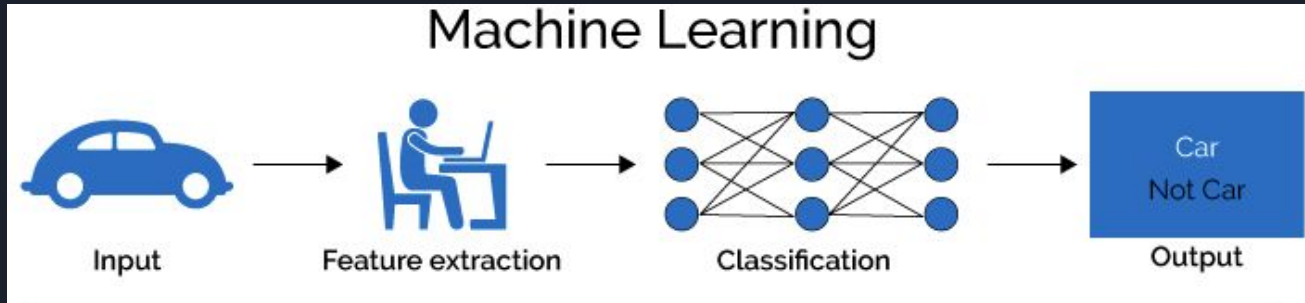
AI Stages (Introduction)



How the AI learns?



How the AI learns?



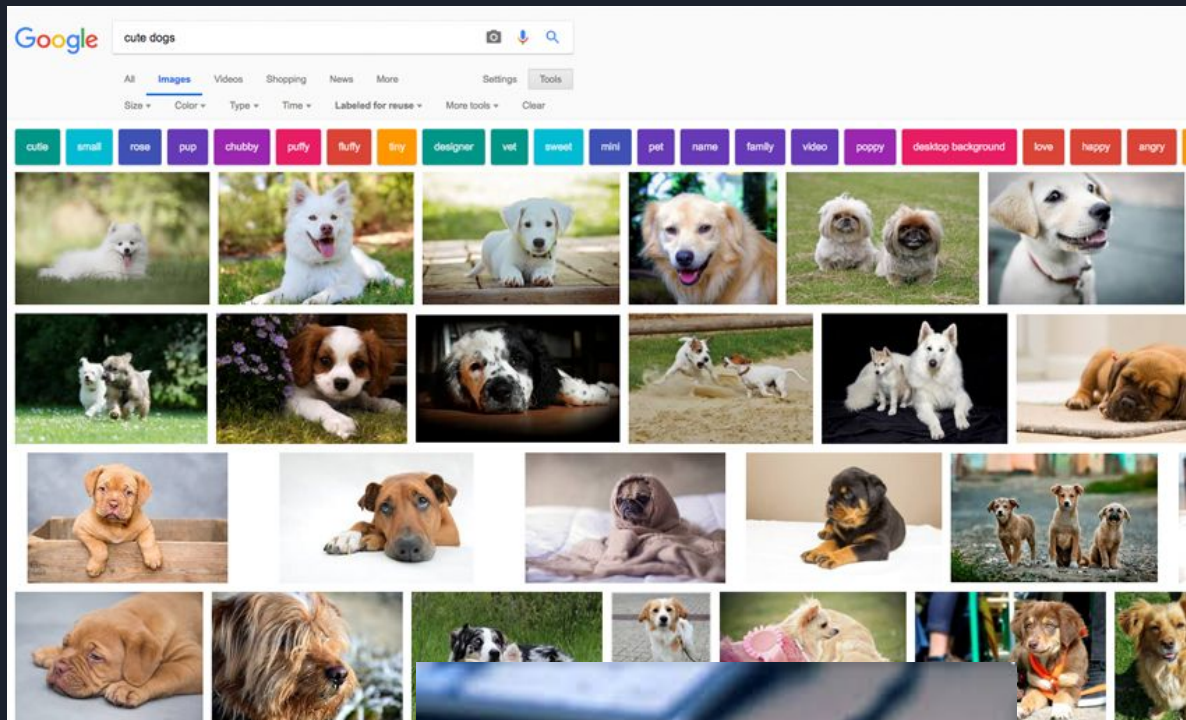
- Supervised
- Expected Output
- Test & Failure
- Object Detection Application

Example

Selecteer alle vakken met
verkeerslichten
Als die er niet zijn, klikt je op Overslaan.

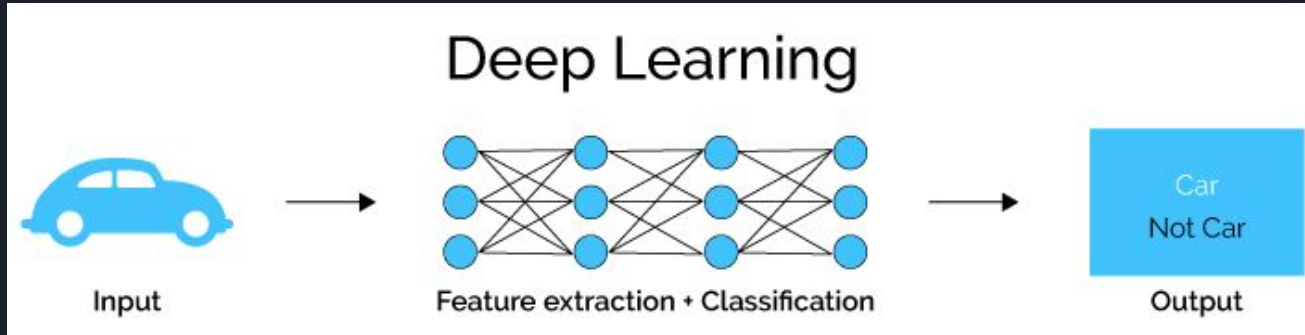


OVERSLAAN

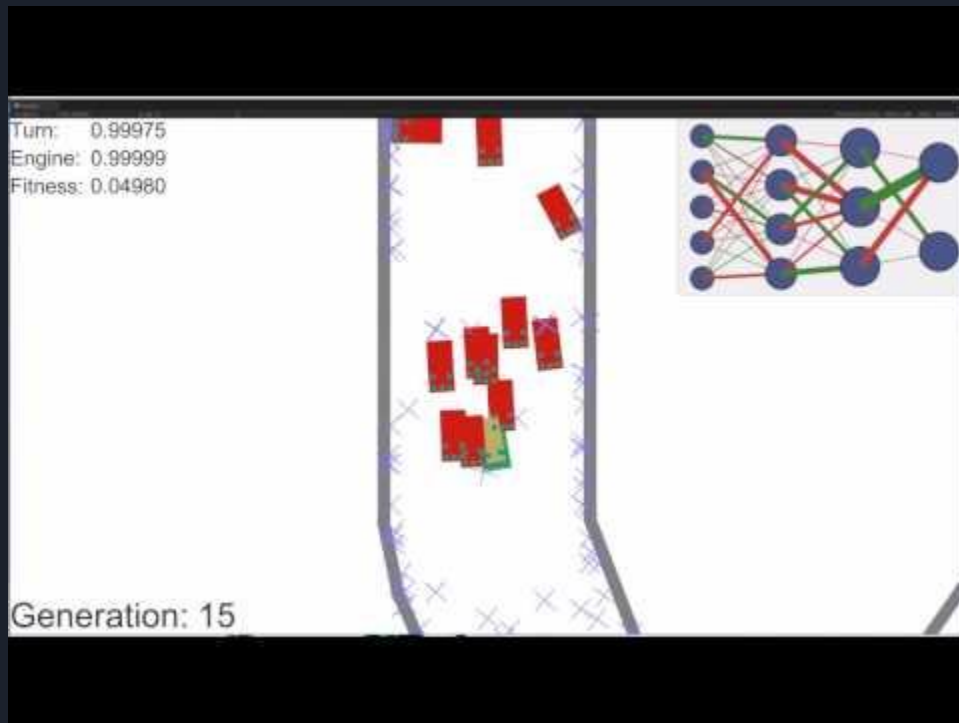


How the AI learns?

- Not Supervised
- Not Output Expected
- Future
- Based on Human Learning
- Predict and Create Patterns



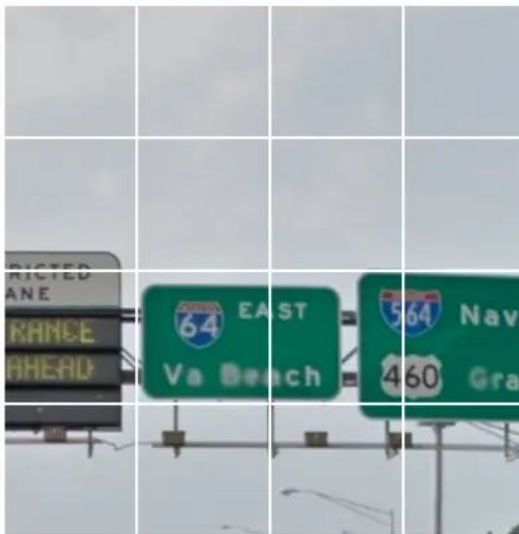
Video Example



Did you know?

Select all squares with **street signs**.

If there are none, click skip.

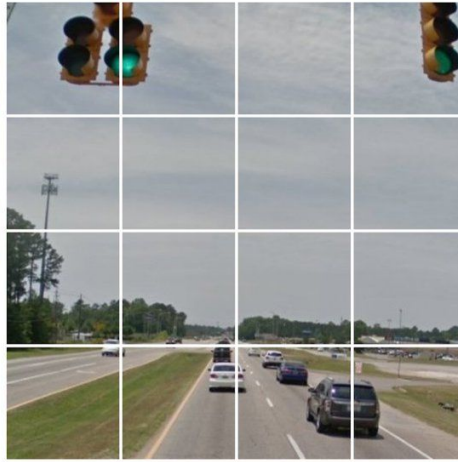


SKIP

Selecteer alle vakken met

verkeerslichten

Als die er niet zijn, klikt je op Overslaan.

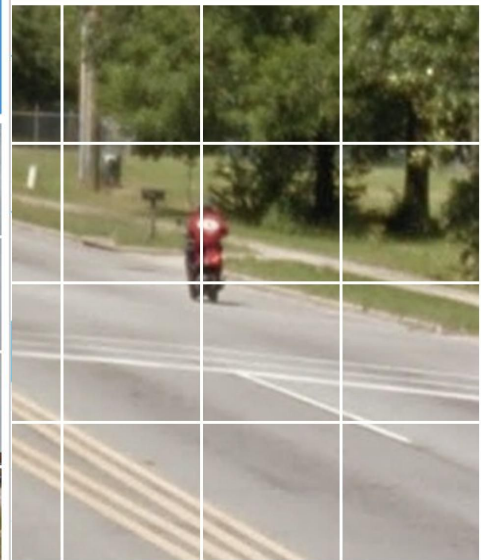


OVERSLAAN

Select all squares with

motorcycles

If there are none, click skip



SKIP

Tools

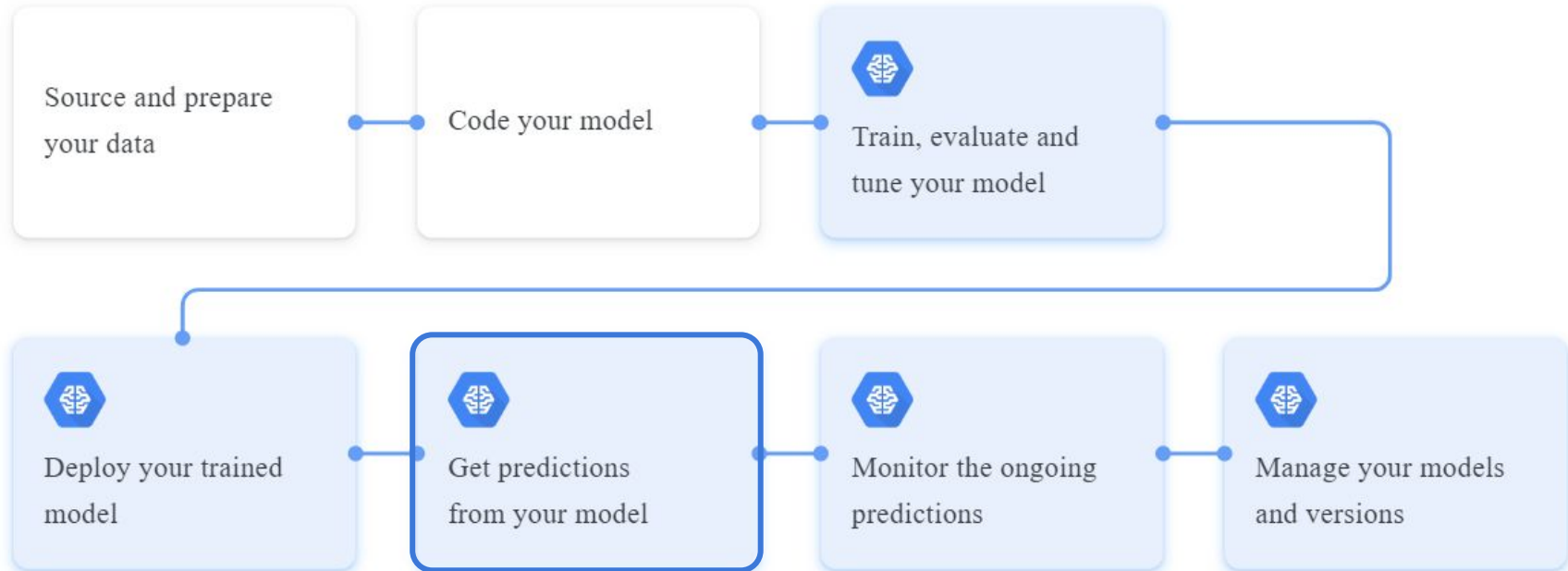


AutoML Vision

API Vision

AutoML Vision Workflow with Google

<https://cloud.google.com/ai-platform/docs/technical-overview>



Google Vision API

[Vision AI](#) | [Derive Image Insights via ML](#) | [Cloud Vision API](#)

- AI Introduction
- [Try it in website!](#)
- Check Json response
- Possible Applications
- [Pricing](#)
- SDK

Vision AI

Derive insights from your images in the cloud or at the edge with AutoML Vision or use pre-trained Vision API models to detect emotion, understand text, and more.

[Go to console](#)





Getting Started

Google Console

Create a Service key.json

Authenticate

Use the API Vision

That's all!



<https://cloud.google.com/vision/docs/setup>

Demo Time!

<https://github.com/robitec/lpr-gcloud>





Pros & Cons

	Google Vision AI	Neural Labs ©
Pros	<ul style="list-style-type: none">• Better General Model• Pricing per Request• SDK Easy to Integrate	<ul style="list-style-type: none">• Better Specific Model• Local Mode (DLL)• Specific Functions
Cons	<ul style="list-style-type: none">• Not Dedicated Model• Internet Requirement	<ul style="list-style-type: none">• Library Pricing• Hard DLL (¯_(\ツ)_/¯)

THANKS FOR WATCHING



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