

CAR LICENSE PLATE DETECTION

Using Image Processing



A decorative graphic on the left side of the slide, consisting of a network of thin, light blue lines that resemble circuit traces. These lines are connected to various colored circular nodes in shades of yellow, orange, red, blue, and purple, some of which have a glowing effect.

Team

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Hardware

- Raspberry Pi-3B (Processing board)



- Pi-camera



A decorative graphic on the left side of the slide, consisting of a network of thin, light blue lines that resemble circuit traces. These lines are connected to various small, glowing circles in colors like yellow, red, blue, and purple, creating a stylized representation of a digital or neural network structure.

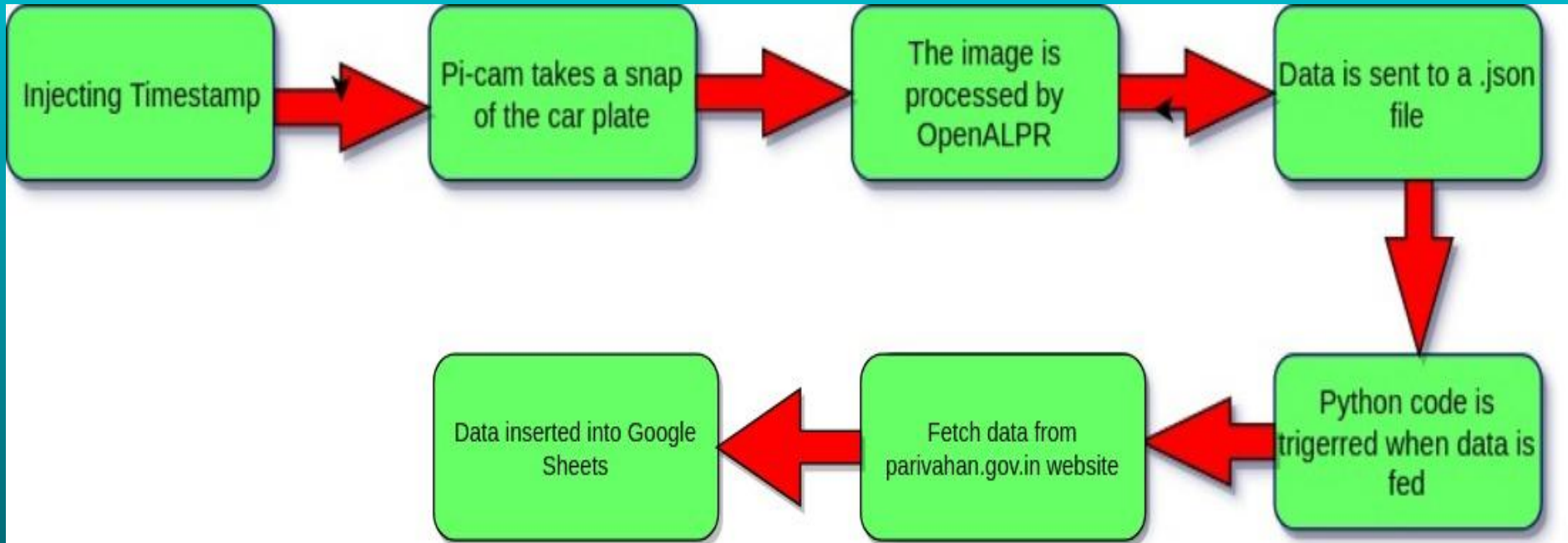
Software tools

NODE-RED (to configure the flow of the process)

Python 3 (back-end)

OpenALPR (processing tool)

Process



Node-RED

Deploy

filter nodes

Flow 1

Flow 1

+

≡

common

inject

debug

complete

catch

status

link in

link out

comment

function

function

switch

change

range

```
graph LR; timestamp[timestamp] --> TakePhoto[Take Photo]; TakePhoto --> cURLPOST[cURL POST]; cURLPOST --> JSON[JSON]; JSON --> msgPayload[msg.payload]; JSON --> file[file];
```

info

Information

Node	"f4cf194e.eb01b8"
Name	JSON
Type	json

show more

Description

Node Help

Converts between a JSON string and its JavaScript object representation, in either direction.

Inputs

payload

object | string

A JavaScript object or JSON string.

schema

object

An optional JSON Schema object to validate the payload against. The property

Pressing enter will edit the first node in the current selection

Video

To watch the working video, please click the link below:

https://drive.google.com/file/d/1JDDyt0JZI_MeYN-aajDgSmRaQ4pY9zfW/view?usp=sharing

The background is a dark blue gradient with a complex, glowing circuit board pattern. White and light blue lines represent circuit traces, connecting various nodes and components. Numerous small circles, squares, and rectangles are scattered across the board, some appearing to glow. In the center-left, there is a prominent square component with a grid of pins extending from its sides, resembling a microchip or a connector. The overall aesthetic is high-tech and digital.

THANK YOU