MINNESOTA LICENSE PLATE PHOTO DECODE AND AUTO DATA LOOKUP

Final Project – Team 9

Nick Prentkowski

Jon Simpson

Ben Farniok

Terrence Cummings

OUR STORY

- Ever been walking down the street, saw a nice car but weren't sure of the make, model, and year?

- Have a used car sales website and want to give your users the capability to auto-complete their car data with simply a photo of their license plate?

- Now just snap a photo of the license plate and upload it to the "Minnesota License Plate Decoder".

- Our machine learning algorithm will extract the license plate number and lookup the make, model, and year of the auto based on the VIN associated with the license plate number.
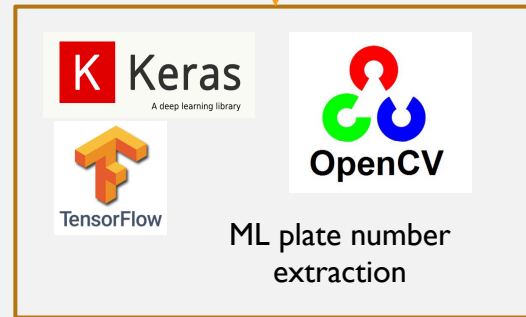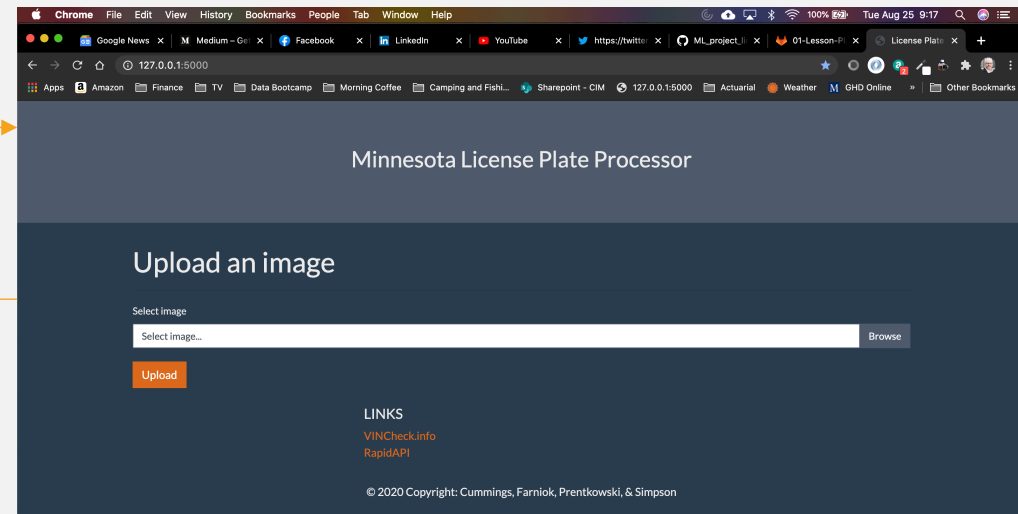
TECHNOLOGY AND ARCHITECTURE

Technologies used:
1. Python
2. Flask
3. Pandas
4. Matplotlib
5. Numpy
6. Keras
7. Tensorflow
8. OpenCV
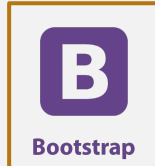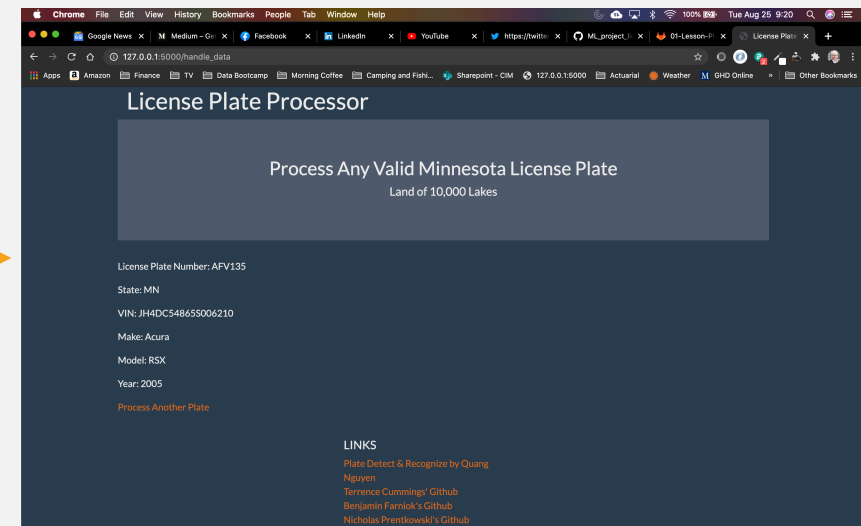9. HTML/CSS

Image upload

Minnesota License Plate Processor

Upload an image

Select image

Select image...   Browse

Upload

LINKS

VINCheck.info
RapidAPI

© 2020 Copyright: Cummings, Farniok, Prentkowski, & Simpson

Keras
A deep learning library

OpenCV

TensorFlow

ML plate number
extraction

API call w/ license plate #

VINCheck.info

https://vinche
ck.info/free-
license-plate-
lookup

Auto make, model, year

Flask   python

Output

CSS

Bootstrap

Styling, UI

License Plate Processor

Process Any Valid Minnesota License Plate
Land of 10,000 Lakes

License Plate Number: AFV135

State: MN

VIN: JH4DC548655006210

Make: Acura

Model: RSX

Year: 2005

Process Another Plate

LINKS

Plate Detect & Recognize by Quang
Nguyen
Terrence Cummings' Github
Benjamin Farniok's Github
Nicholas Prentkowski's Github