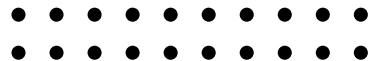


LoveIt!

a user friendly image classification platform

Kemal Alaeddinoğlu
DSI 420 Capstone Project



Agenda

1 Problem Statement

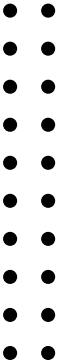
2 Solution

3 Demo

4 Methodology

5 Future Development

6 Findings & Conclusion



Meet Lydia



Lydia is a little nervous nowadays. She is not sure if she can find the perfect gift for her girlfriend.

Does she like this?



Lydia's girlfriend will tell her she likes it, but is that genuine?

Problem Statement

1

looking for a perfect gift is not fun because ...



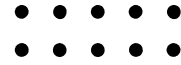
The giver is not sure if the recipient will like the gift



The recipient can't decide how respond if they don't like it



The recipient may think that giver still doesn't know the recipient well enough ?



2

SOLUTION

Gift Givers

Takes the stress out of the process

Shows the sentiment

Gift Recipient

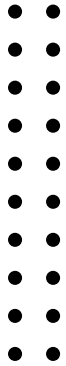
Sentimental and Useful

Doesn't need to return/change

Doesn't cause pretentious responses

Solution

2

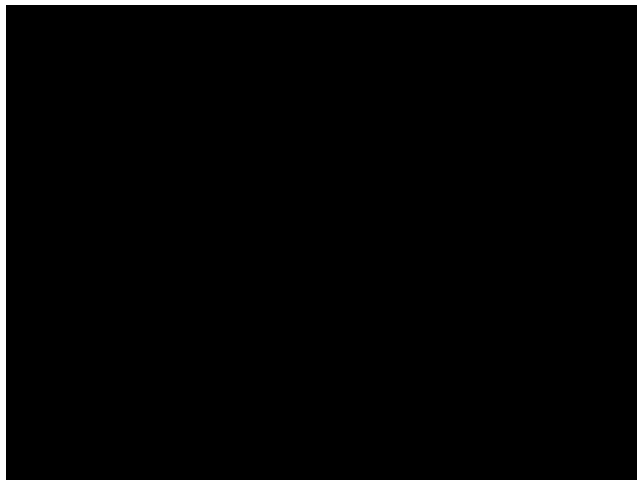
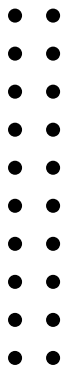


LoveIt!

A user friendly image classification platform that helps people to choose the perfect gift for the loved ones!

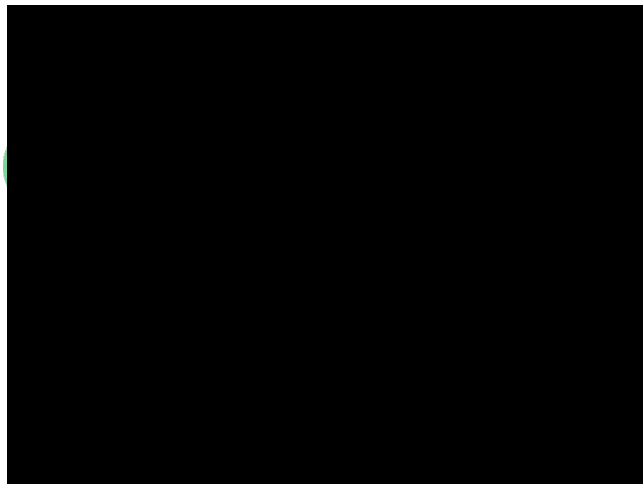
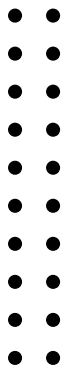
Demo

3



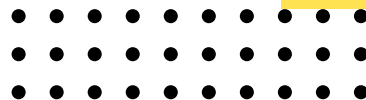
Demo

3



Methodology

3



Data
Cleaning



Modeling



User
Interface



Compile

Methodology

3

Data Cleaning

1

Image Data

Extracting image data with matplotlib image library

2

Normalizing

A value between 0 - 1

3

Resizing

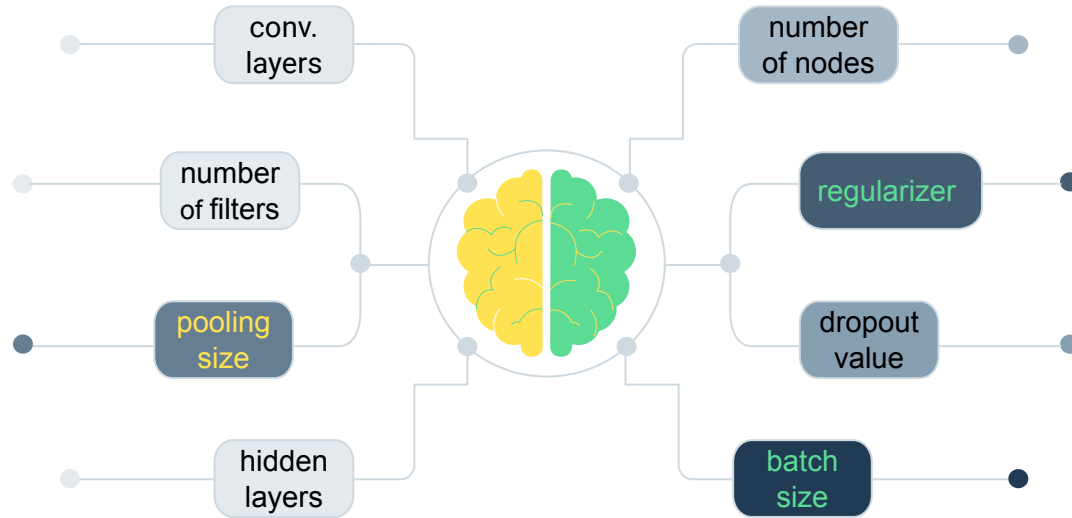
Resizing the image data with OpenCV library cv2

4

Target

Prepared the target data
{0: "disliked", 1: "liked"}

Modeling - Convolutional Neural Network



Methodology

3

Hyperparameter Criteria



ACCURACY



TIME

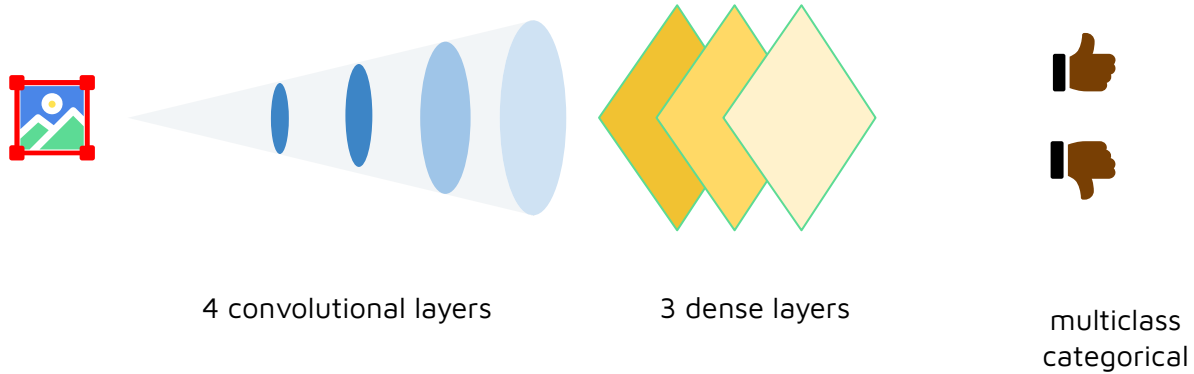


COMPUTATIONAL POWER

Methodology

3

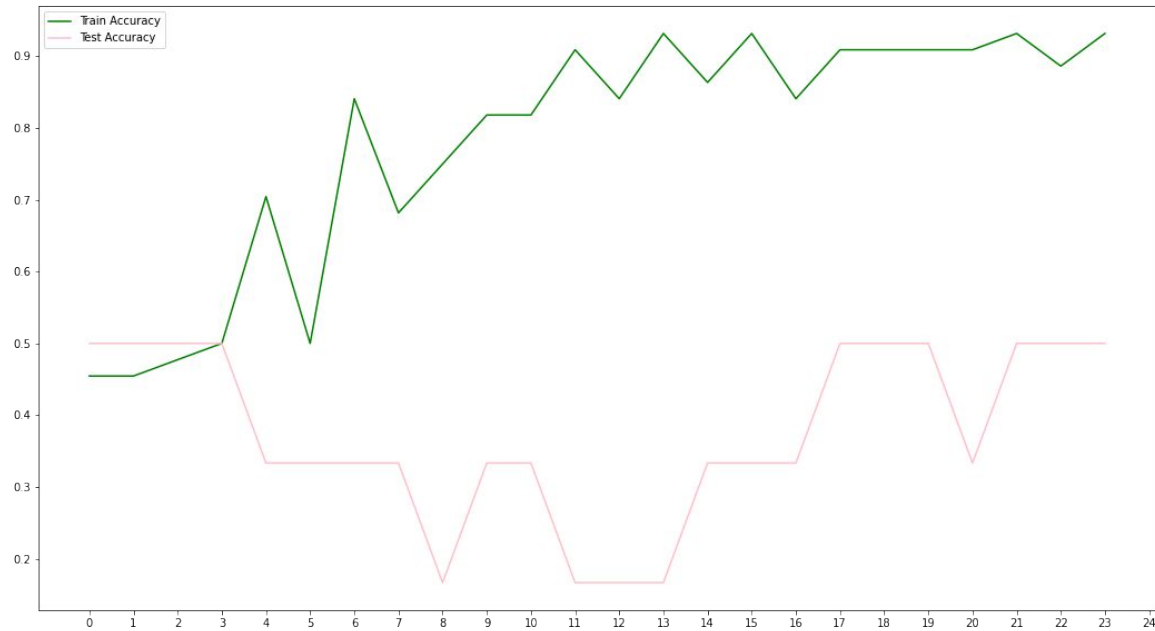
Modeling - Convolutional Neural Network



Methodology

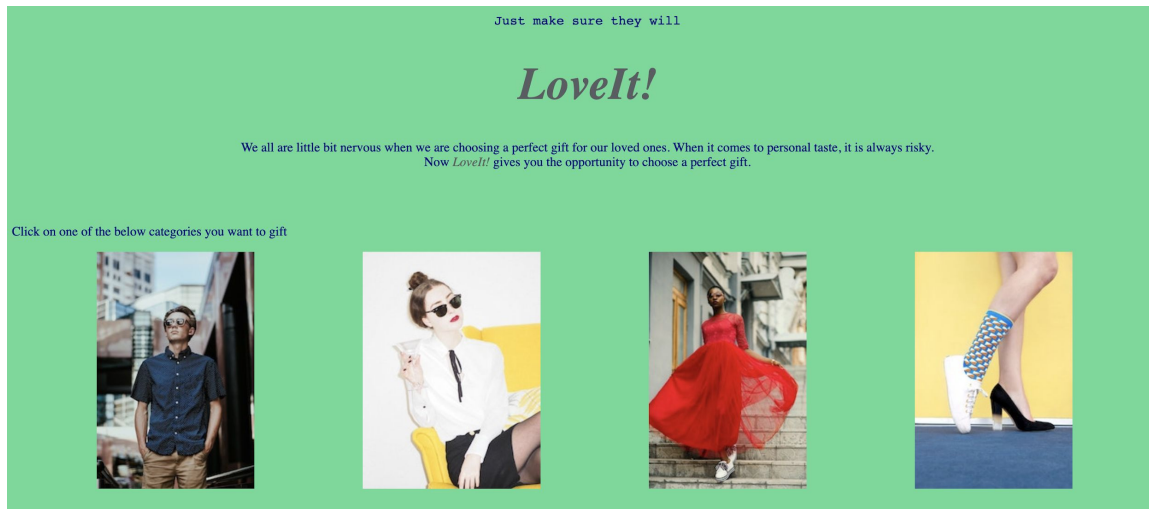
.....

5



Methodology

3



Flask



Future Developments

4



PERSONALIZATION

Personal accounts with
username & password

BROWSER EXTENSION



IMAGE UPLOAD

Drag & Drop

MOBILE APP

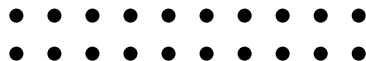
DEPLOYMENT



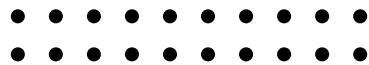


“The best thing about a boolean is even if you are wrong, you are only off by a bit.”

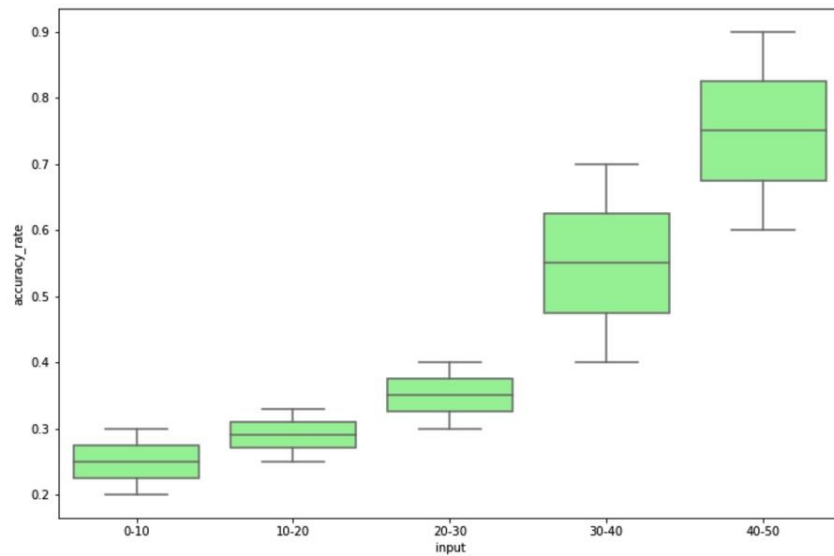
– Anonymous



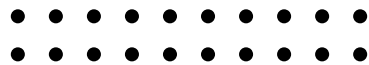
FINDINGS



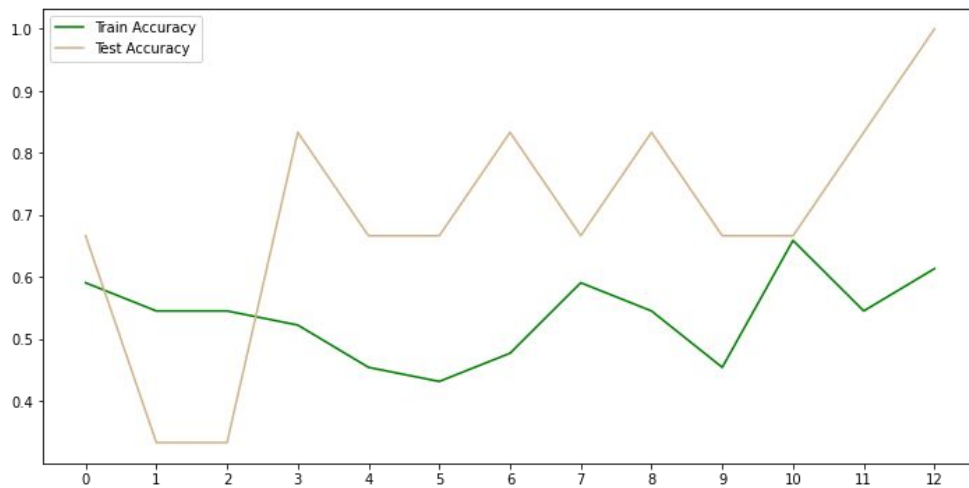
5



FINDINGS



5



CONCLUSIONS

.....

5

LoveIt!



FUN



USEFUL



CHALLENGING



THANKS!

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