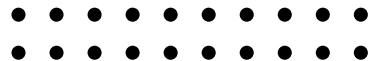


# *LoveIt!*

a user friendly image classification platform

Kemal Alaeddinoğlu  
DSI 420 Capstone Project



# Agenda

**1** Problem Statement

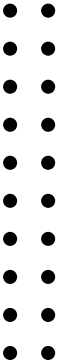
**2** Solution

**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?

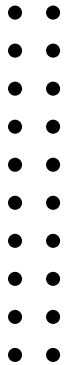


Lydia's girlfriend will tell her she likes it, but is that genuine?

# Problem Statement

1

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



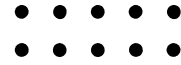
The giver is not sure if the recipient will like the gift



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**

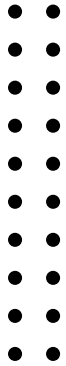
Sentimental and Useful

Doesn't need to return/change

Doesn't cause ingenuine responses

# Solution

2

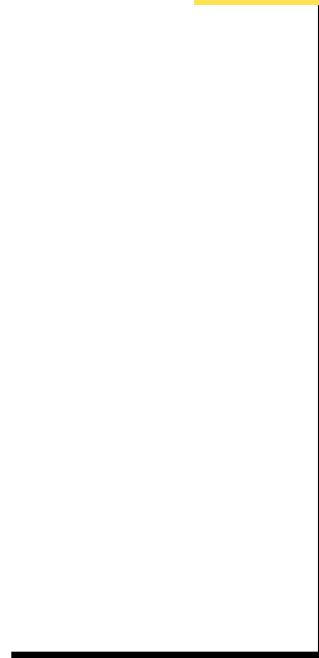
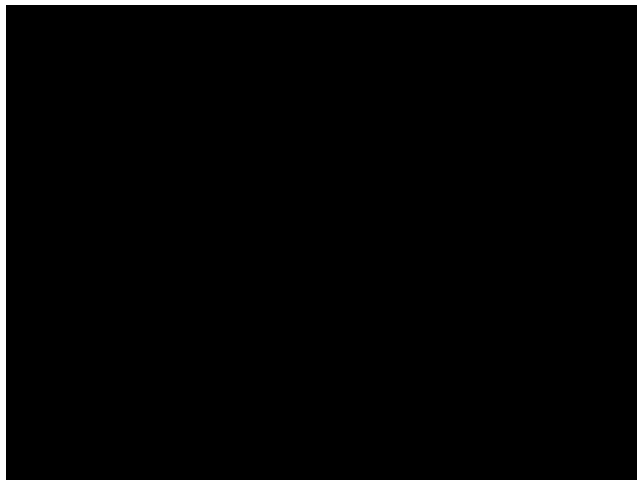
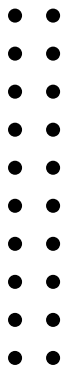


*LoveIt!*

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

# Demo

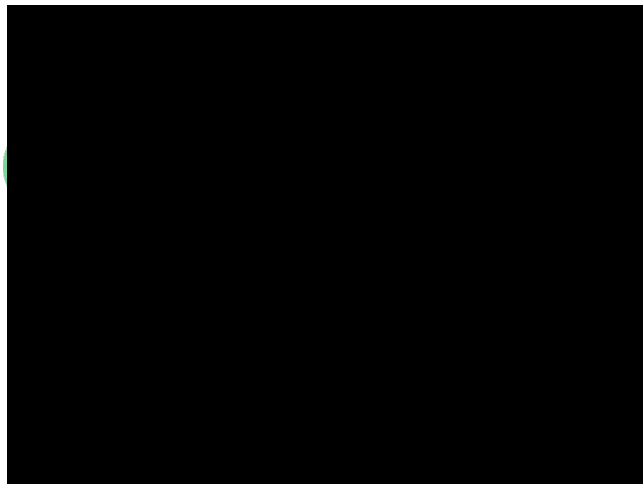
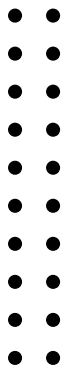
# 3





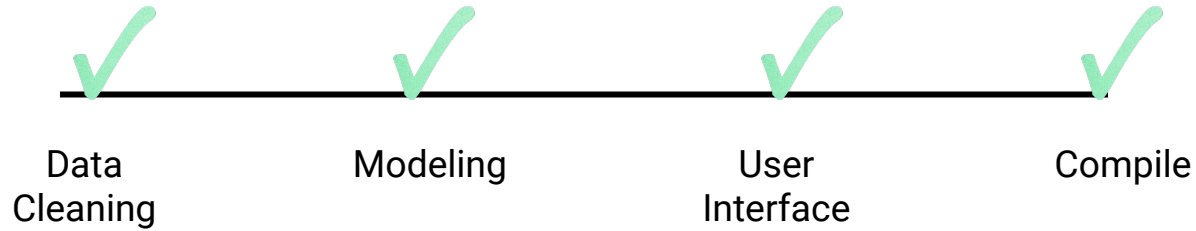
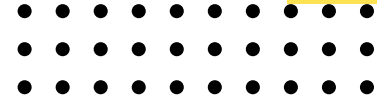
# Demo

# 3



# Methodology

3



# Methodology

3

## Data Cleaning

1

Image Data

Extracting image data with matplotlib image library

2

Normalizing

A value between 0 - 1

3

Resizing

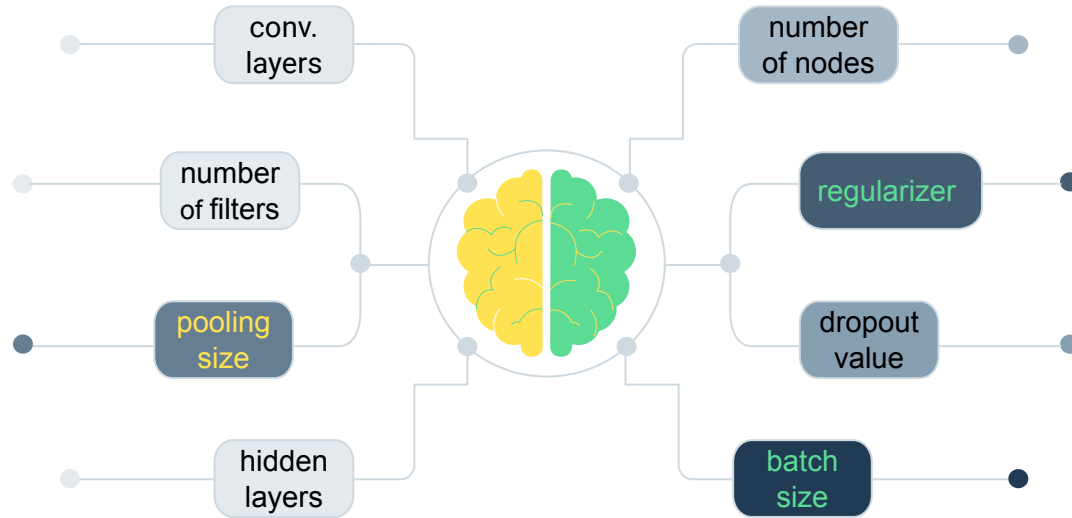
Resizing the image data with OpenCV library cv2

4

Target

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

## Modeling - Convolutional Neural Network



# Methodology

3

## Hyperparameter Criteria



**ACCURACY**



**TIME**

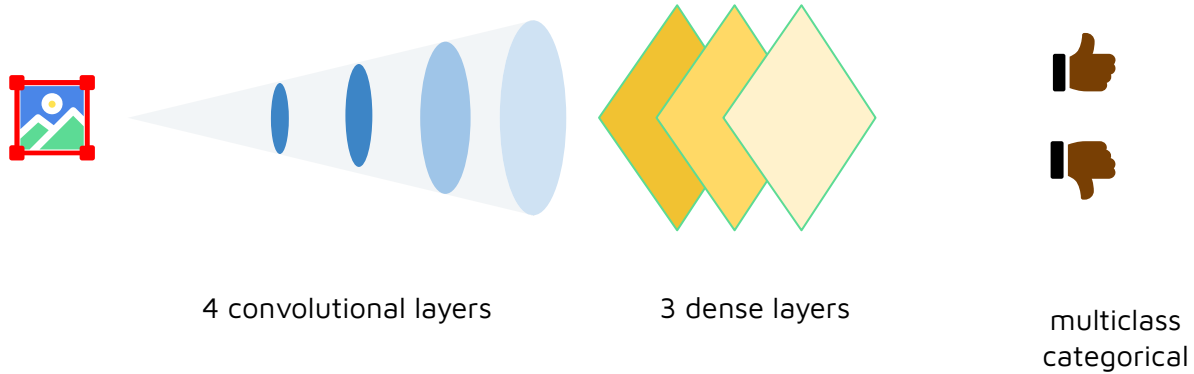


**COMPUTATIONAL POWER**

# Methodology

3

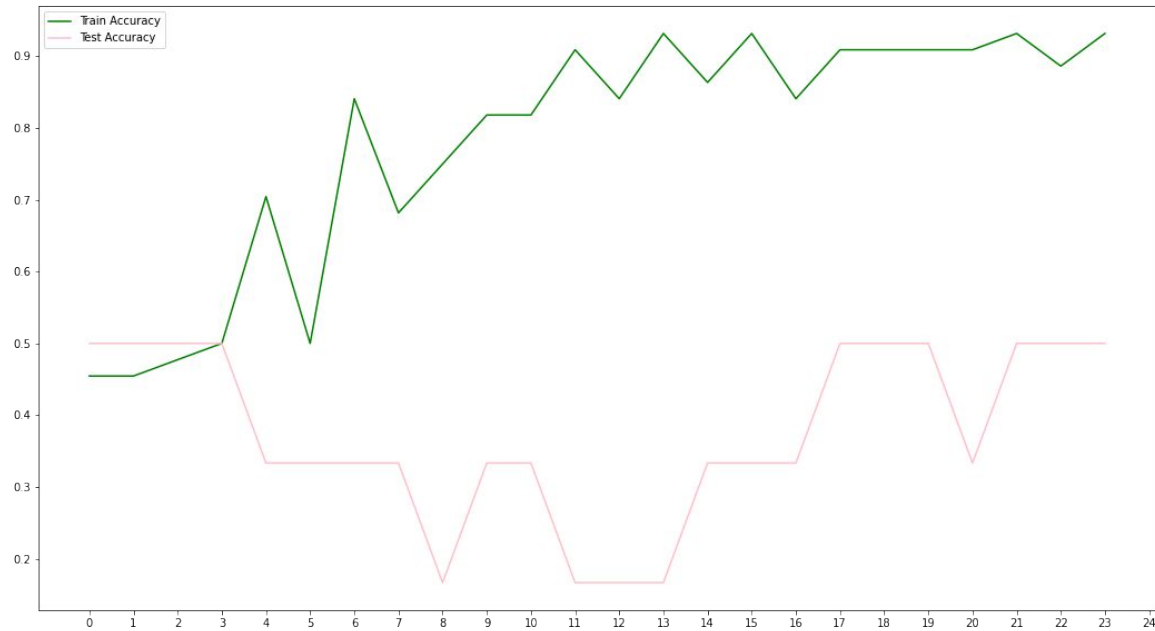
## Modeling - Convolutional Neural Network



# Methodology

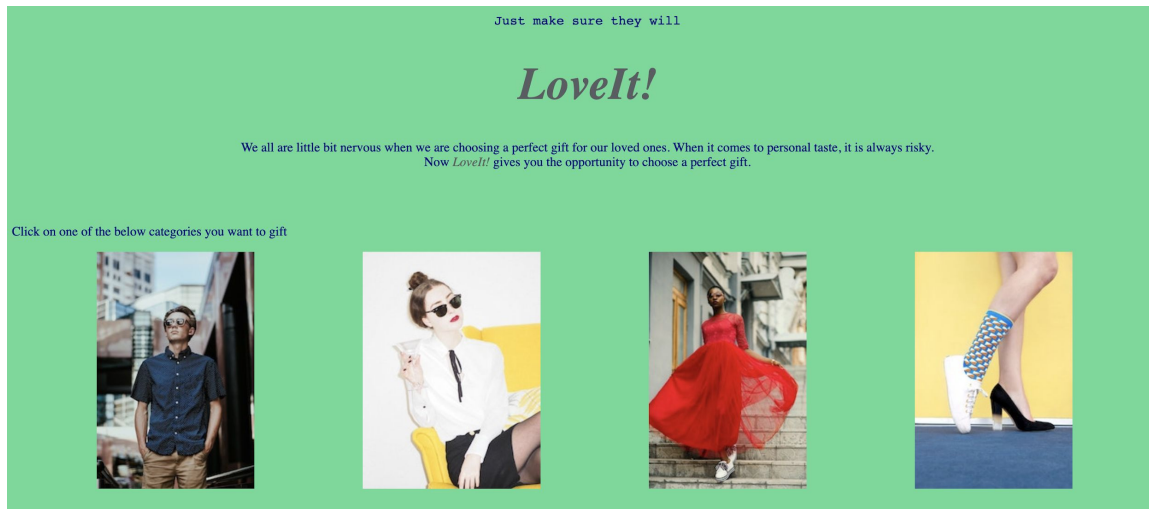
.....

5



# Methodology

3



Flask





# Future Developments

4



## PERSONALIZATION

Personal accounts with  
username & password

## BROWSER EXTENSION



## IMAGE UPLOAD

Drag & Drop

## MOBILE APP

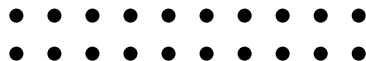
## DEPLOYMENT



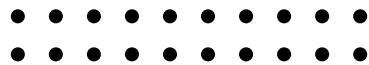


**“The best thing about a boolean is even if you are wrong, you are only off by a bit.”**

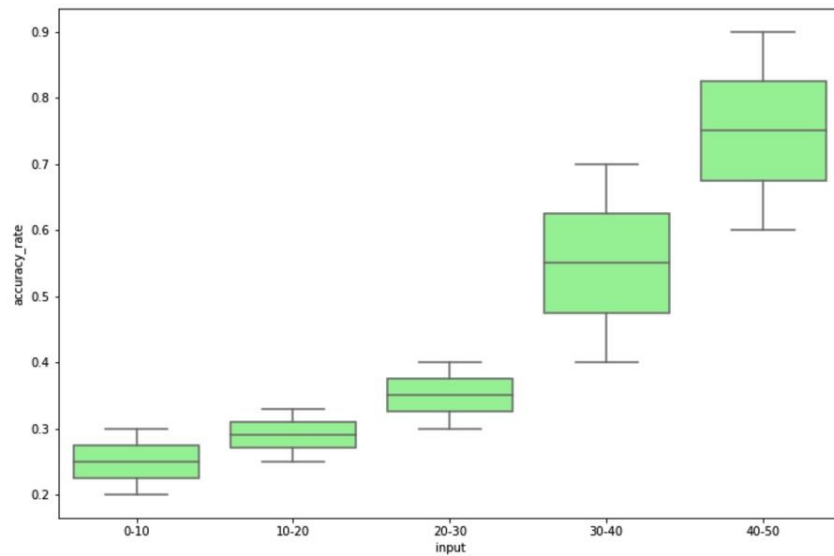
**– Anonymous**



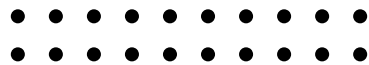
# FINDINGS



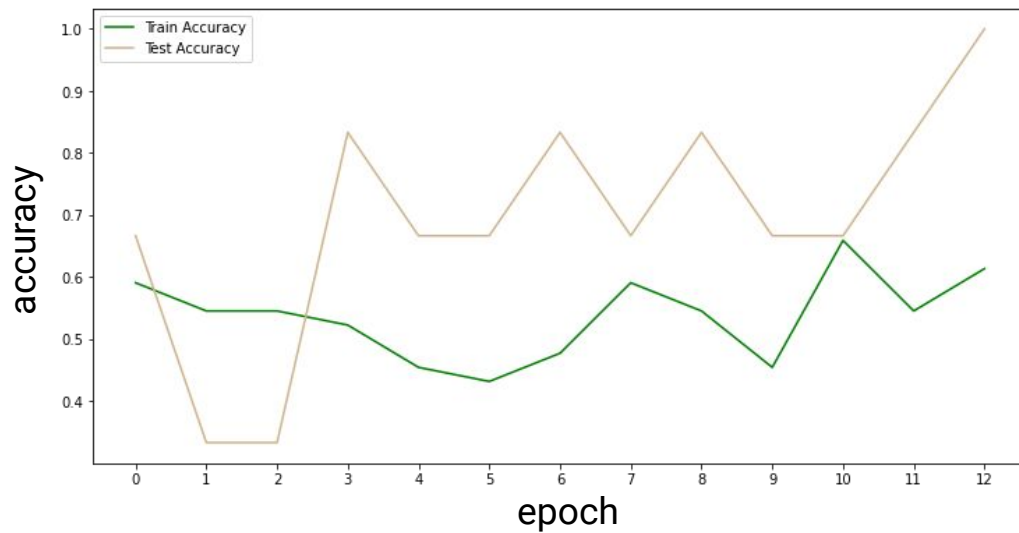
5



# FINDINGS



5



# CONCLUSIONS

.....

5

*LoveIt!*



FUN



USEFUL



CHALLENGING



# THANKS!

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