

Recycling

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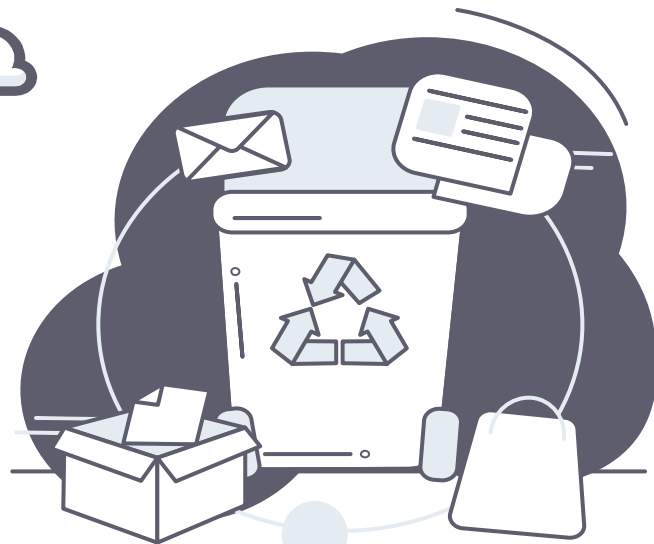
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01.



Introduction

Introduction

Waste is an important global issue. Increasing amounts of waste are being generated as the world's population and living standards rise. People are increasingly concerned about the production and impact of waste, and are looking for ways to deal with the problem. One of these ways is recycling.



02.

Workflow



Idea



Dataset



Experiments



Baseline Model



Final result

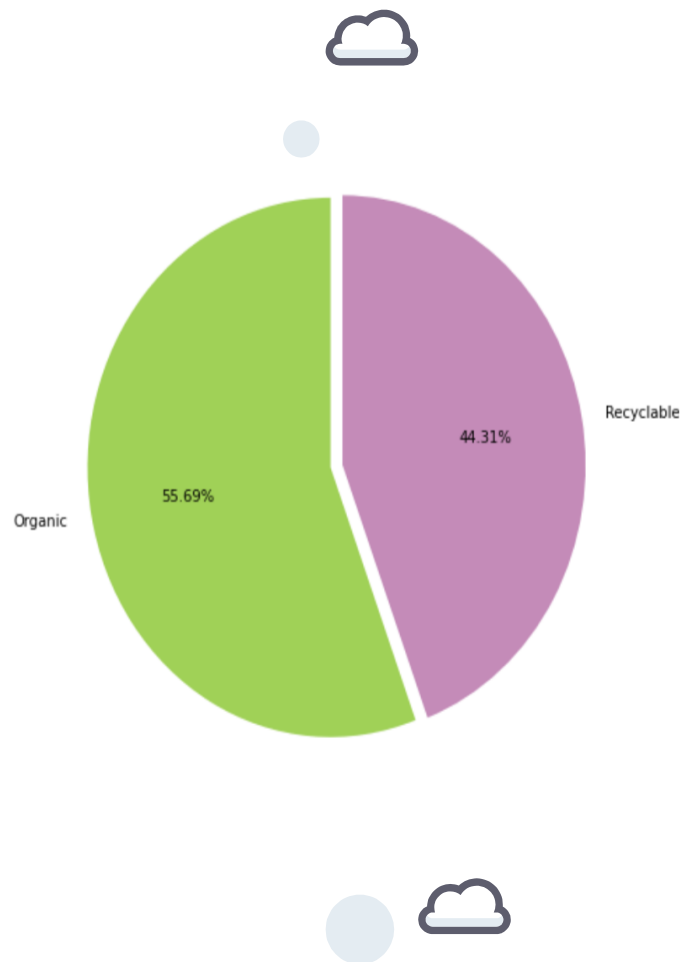
03.

Dataset

Waste
dataset

+25K
images

Two
classes



04.



Models

Loss func

Accuracy

Val_loss

Val_accuracy

Experiment 1

0.328

0.572

0.335

0.496

Experiment 2

0.169

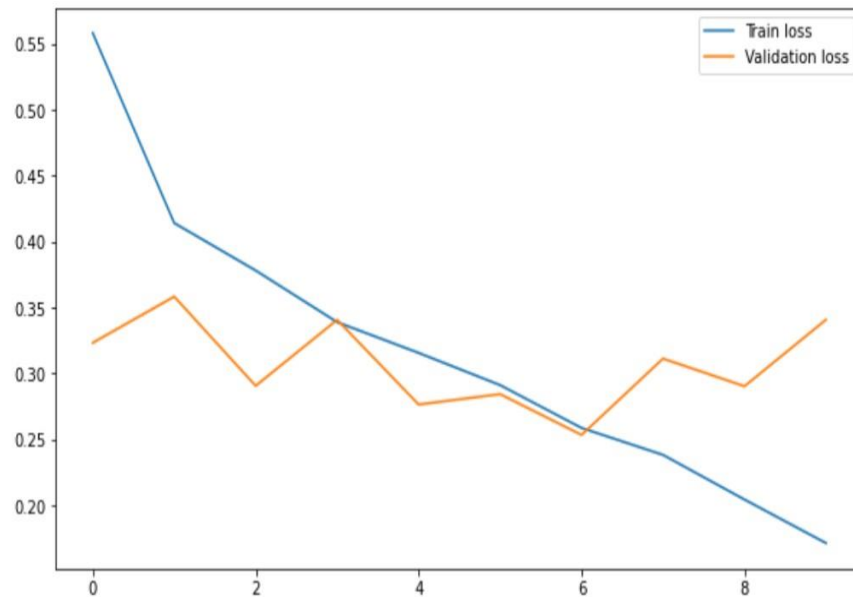
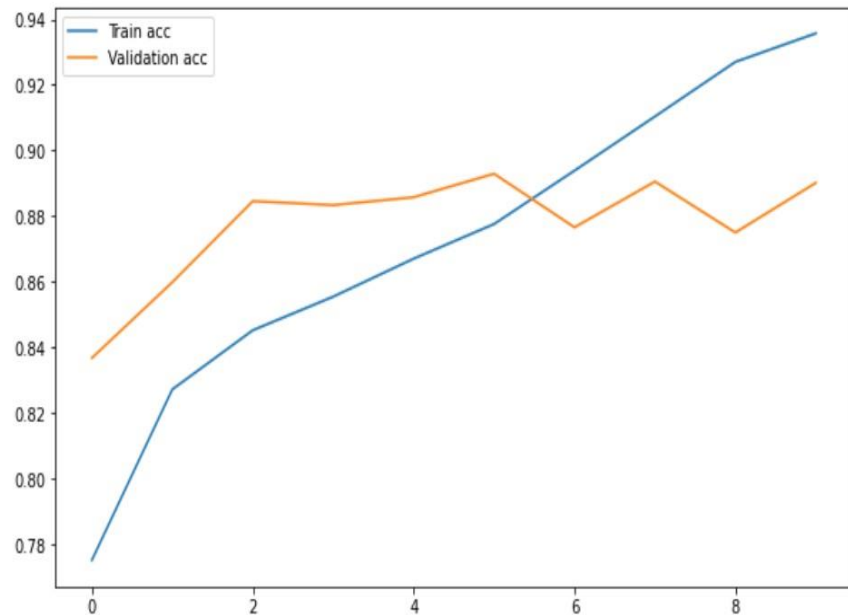
0.935

0.391

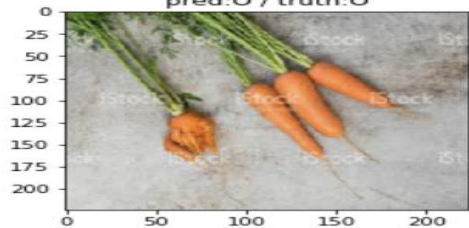
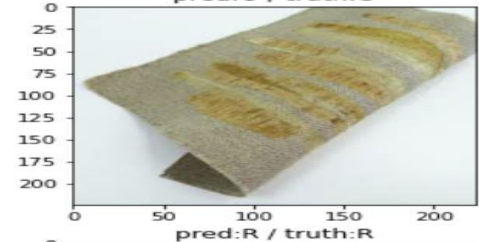
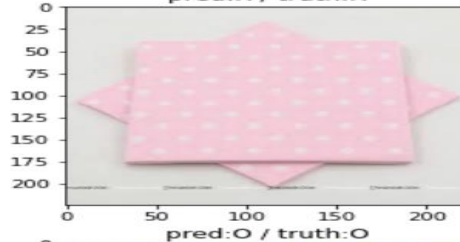
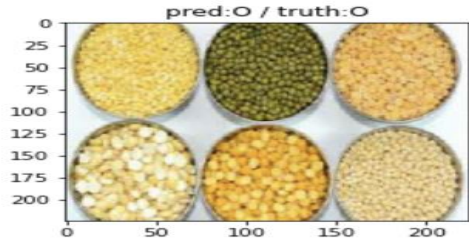
0.890

04.

Models[∞]



Final results



Conclusion

- This model is able to determine the content of the image to see if it is recyclable or organic by 93%.

Future works:

- Increase classifications such as (paper, plastic, glass etc.).
- Increase the number of pictures.



Thanks!

