



The Development of Sorting Machine

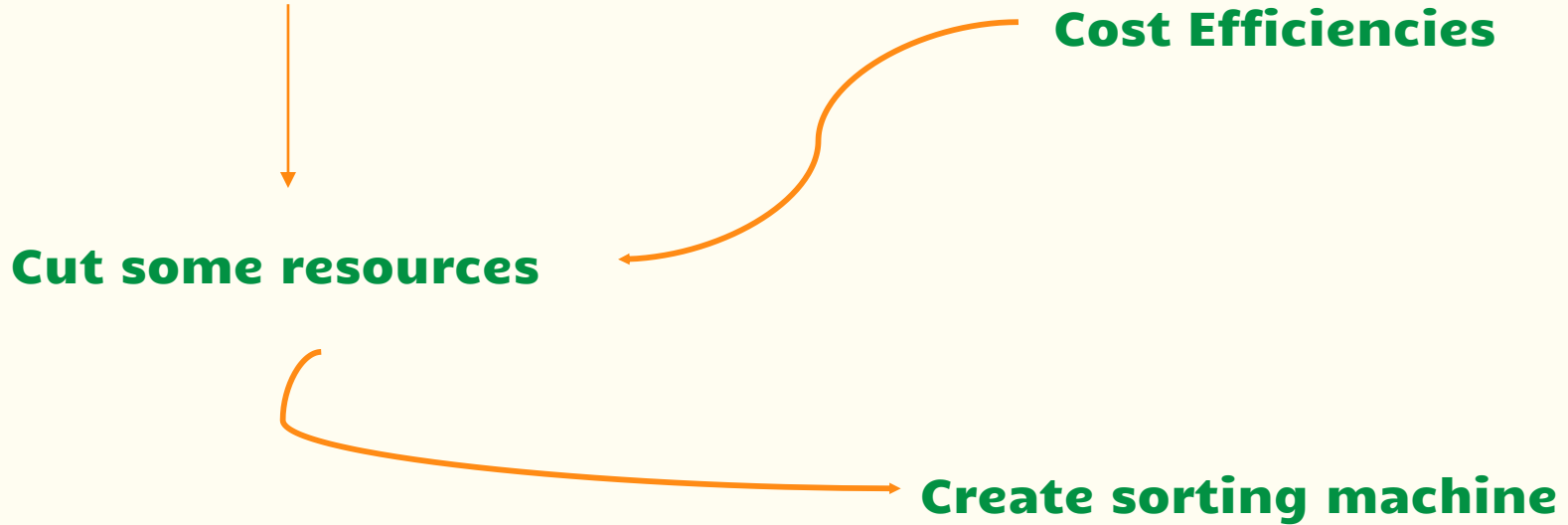
by Data Scientist Team





Background

Company is facing financial problems



Computer Vision

To classify or predict types of vegetables so we need no human resources

Bean



Bitter Gourd



Bottle Gourd



Brinjal



Broccoli



Cabbage



Capsicum



Carrot



Cauliflower



Cucumber



Papaya



Potato



Pumpkin



Radish



Tomato



Model Comparison

Sequential

	Loss	Accuracy
Train	0.4615	0.8569
Test		0.8700
Val	0.4904	0.8503



Capsicum



Radish



Cauliflower



Model Comparison

VGG



Capsicum



Radish



Pumpkin

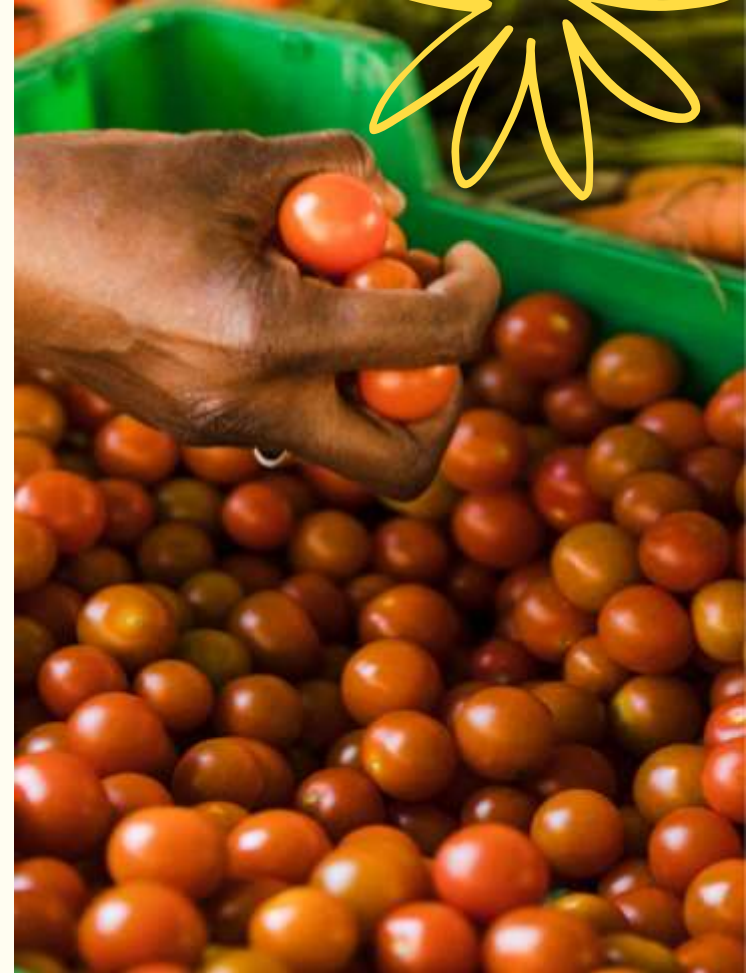
	Loss	Accuracy
Train	0.0105	0.9963
Test		0.99
Val	0.0587	0.9873



Best Model :
VGG



Improvement:
Train with more datasets
+
Distinguish the bad veggies



and if the company will give us more time, we will add some features so the machine could distinguish the fresh/rotten vegs to provide good quality of our products.



<https://huggingface.co/spaces/miayulia/ML2phase2>

Thank you.

