

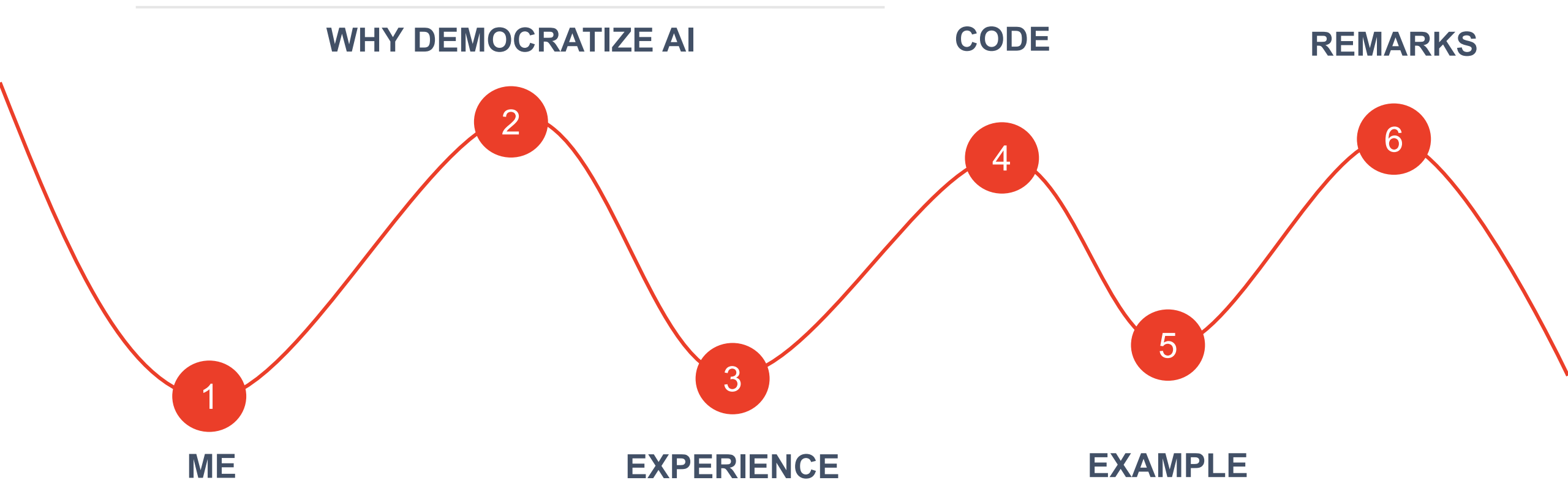
Compete in Kaggle using KerasCV

Adonai Vera – ML Engineer Subterra AI





Topics





Why Artificial Intelligence 🌍

"My personal story"



My purpose is to make the technology **easier to use**, **accessible** and with **good quality** to anybody 💡 🚀 .



Why democratize AI 🌍

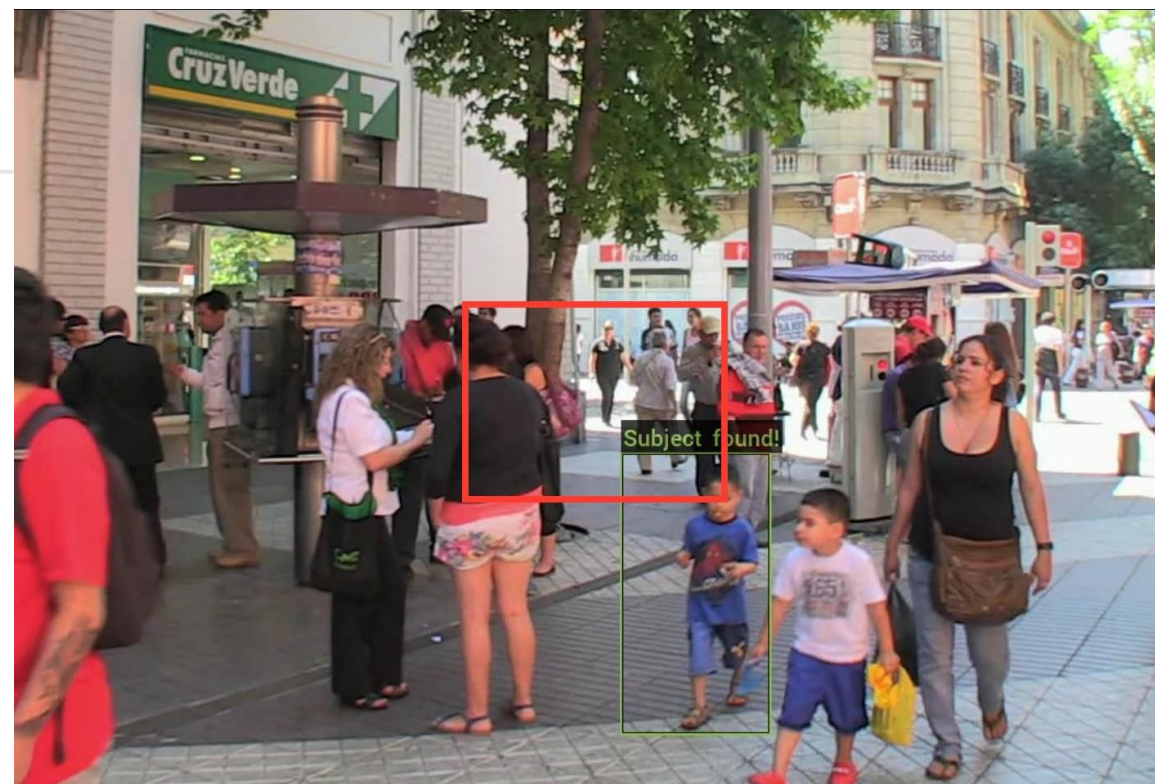
"Personal story"





Why democratize AI

“Government Industry





I'm Adonai Vera. A Machine Learning Engineer based in Colombia 🇨🇴

I have been a software developer, AI developer, AI Leader, and CTO in different companies which has given me a vision of creating AI products with a customer focus 🌐 Besides, I'm one of the 10 TensorFlow certified Developers for Google in Colombia, author of courses as "Curso Profesional de Redes neuronal con TensorFlow", and "Curso Profesional de computer vision con TensorFlow" in Platzi and winner of the hackathon Covid19 and Innovate2019 with Ecopetrol Colombia 🌟 ...

On this site we explore the strategies and tools that help us live happier, healthier, more productive lives 🚀



What is Artificial Intelligence



It is the science and engineering of making intelligent machines, especially intelligent computer programs. It is related to the similar task of using computers to understand human intelligence, but AI does not have to confine itself to methods that are biologically observable.



John McCarthy



🌐 What is Computer Vision 🌐





Object classification



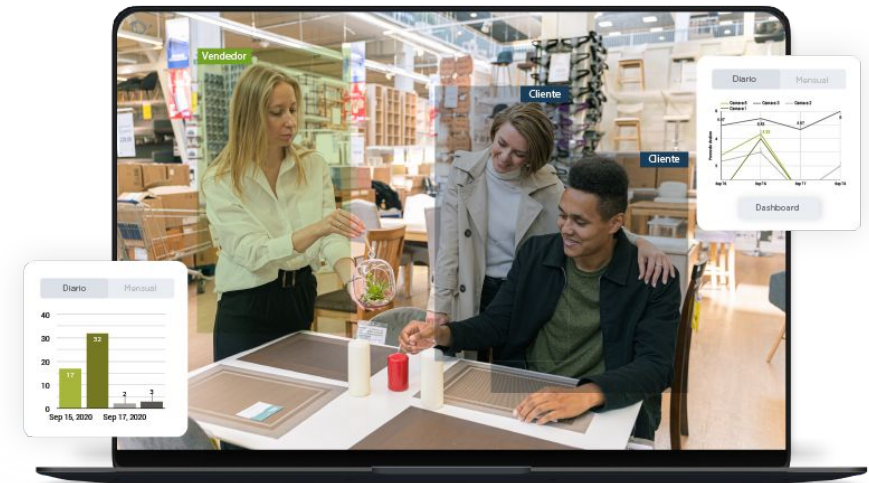
PERSON

Multiclass Classification



PERSON | DOG

Multiple object classification

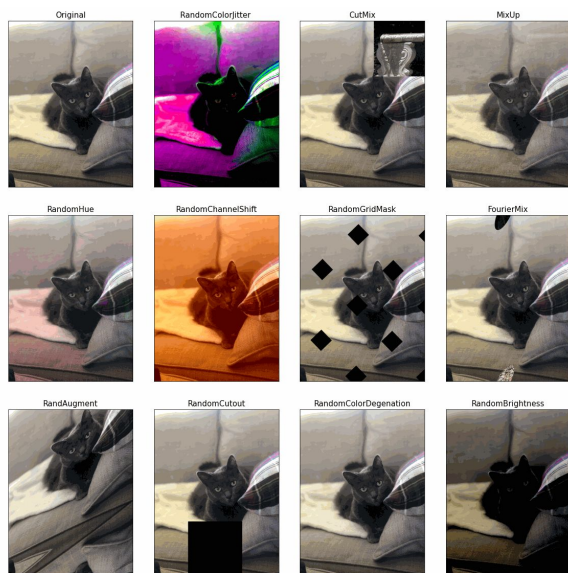


VENDOR, CUSTOMER

Object Detection



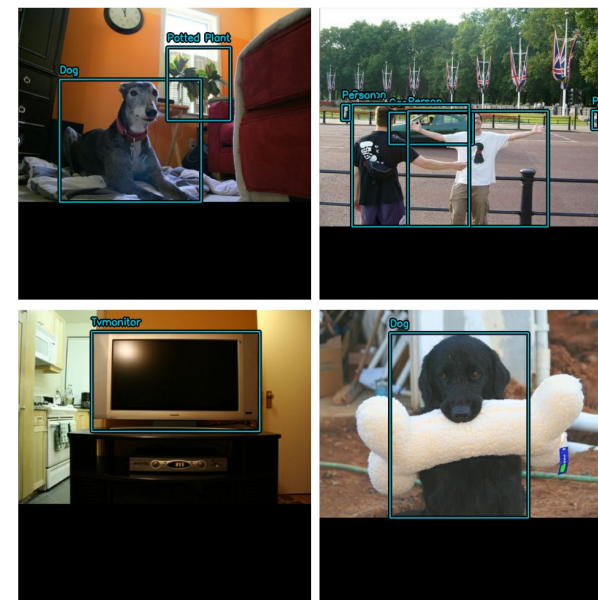
Object classification



Data Augmentation



Image Generation



Data Visualization



[Code](#) [Issues](#) [Pull requests](#) [Actions](#) [Projects](#) [Wiki](#) [Security](#) [Insights](#) [Settings](#)

[main](#) [keras_community_day / README.md](#)

AdonaiVera Update README.md

5787707 · 1 minute ago History

Preview Code Blame

48 lines (29 loc) · 3.7 KB

Raw Copy Download Edit More

Compitiendo en Kaggle: El Arte de Diagnosticar enfermades en plantas de Yuca con KerasCV (Keras Community Day) 🧐🚀

Open in Colab

Welcome Keras Community Day

Note: This repository is for the Keras Community Day 📄

Archivos

dataset

sample_data

test_images

test_images

+ Código + Texto

```
WARNING:tensorflow:Using a while_loop for converting CropAndResize cause there is no registered converter for this op: CropAndResize
WARNING:tensorflow:Using a while_loop for converting CropAndResize cause there is no registered converter for this op: CropAndResize

image_batch = next(iter(train_ds.take(1))["images"])
keras_cv.visualization.plot_image_gallery(
    image_batch,
    rows=3,
    cols=3,
```

THANK YOU
Adonai Vera
www.switchai.co







Winning Strategies in Kaggle Competition



The most common techniques which contribute to the winning solutions in computer vision Kaggle competitions are:

Data Augmentation ✓
Validation Strategies
Ensembling Techniques
Post Processing
SOTA Models ✓
Labelling Techniques
Post processing Tricks
Model tuning ✓



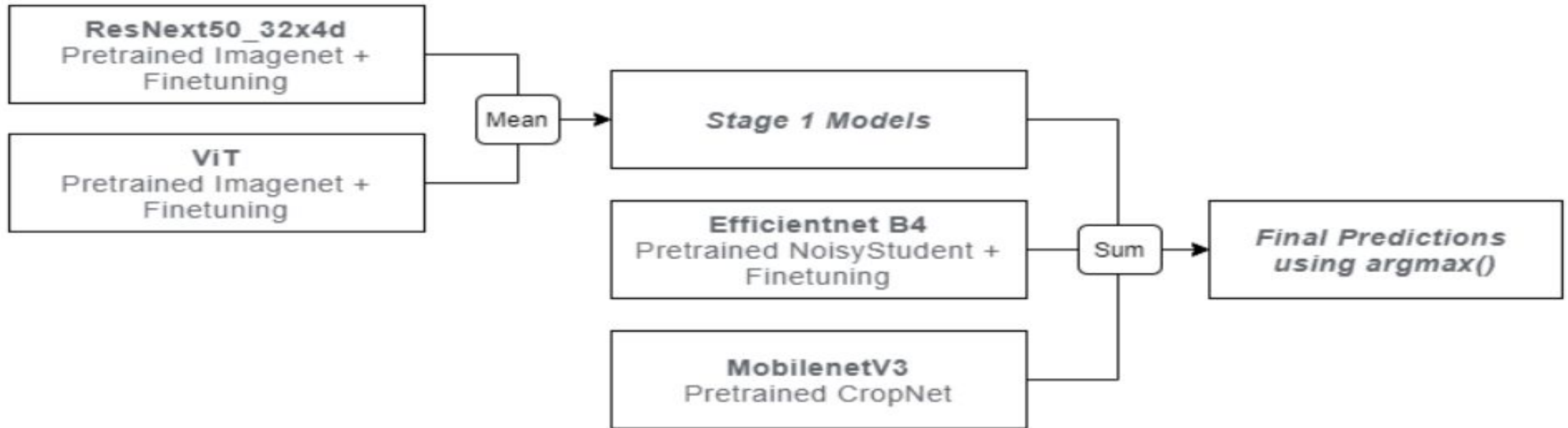
Source



First place Solution – Cassava Leaf Disease

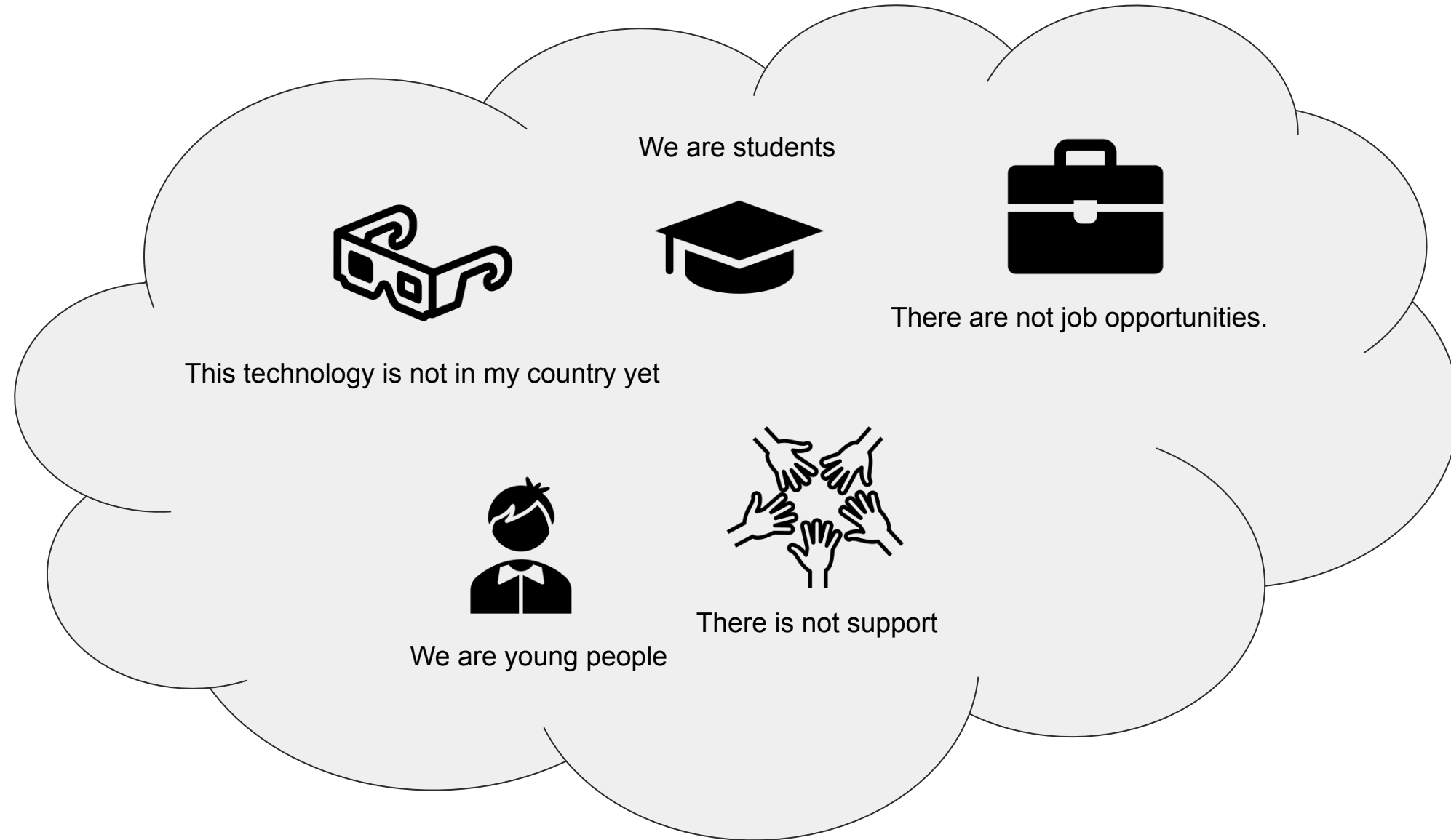
Classification

“My personal story



Many of the winning of Cassava Leaf Disease classification competition involved effective ensembling of multiple SOTA models .

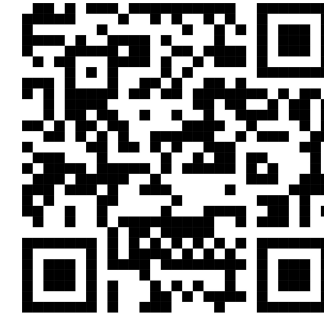
[Source](#)





Where do I start?

I don't know anything about AI



- Be part of the community.
- Try to be in a research team.
- Learn with projects.
- Share experiences.
- Register to daily tools as TECLA or Paper with Code Newsletter.
- Find a mentor



www.adonaivera.com



“

How can we take action to reduce barriers to accessing artificial intelligence and make it more accessible to everyone?

”

THANK YOU
Adonai Vera

www.switchai.co

