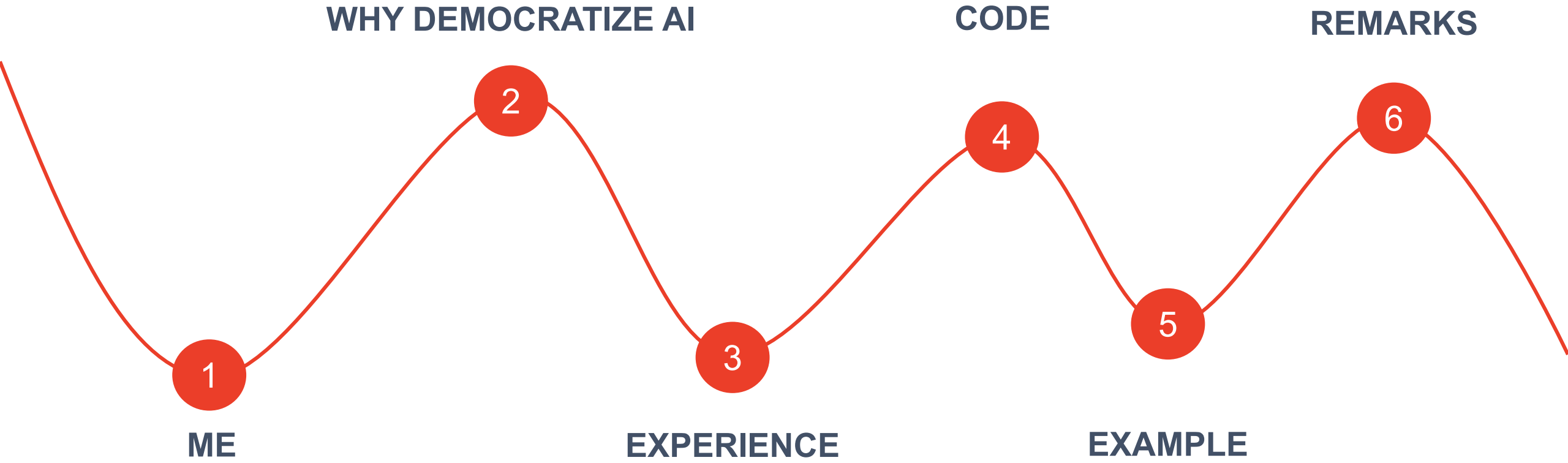
Strokes of AI: Creating Visual Magic in Real Time with MediaPipe and Streamlit.

Adonai Vera – ML Engineer Subterra AI

ADONAI

subterra™

Topics


WHY DEMOCRATIZE AI
CODE
REMARKS
1
2
3
4
5
6
ME
EXPERIENCE
EXAMPLE

Why Artificial Intelligence 🌏

"My personal story

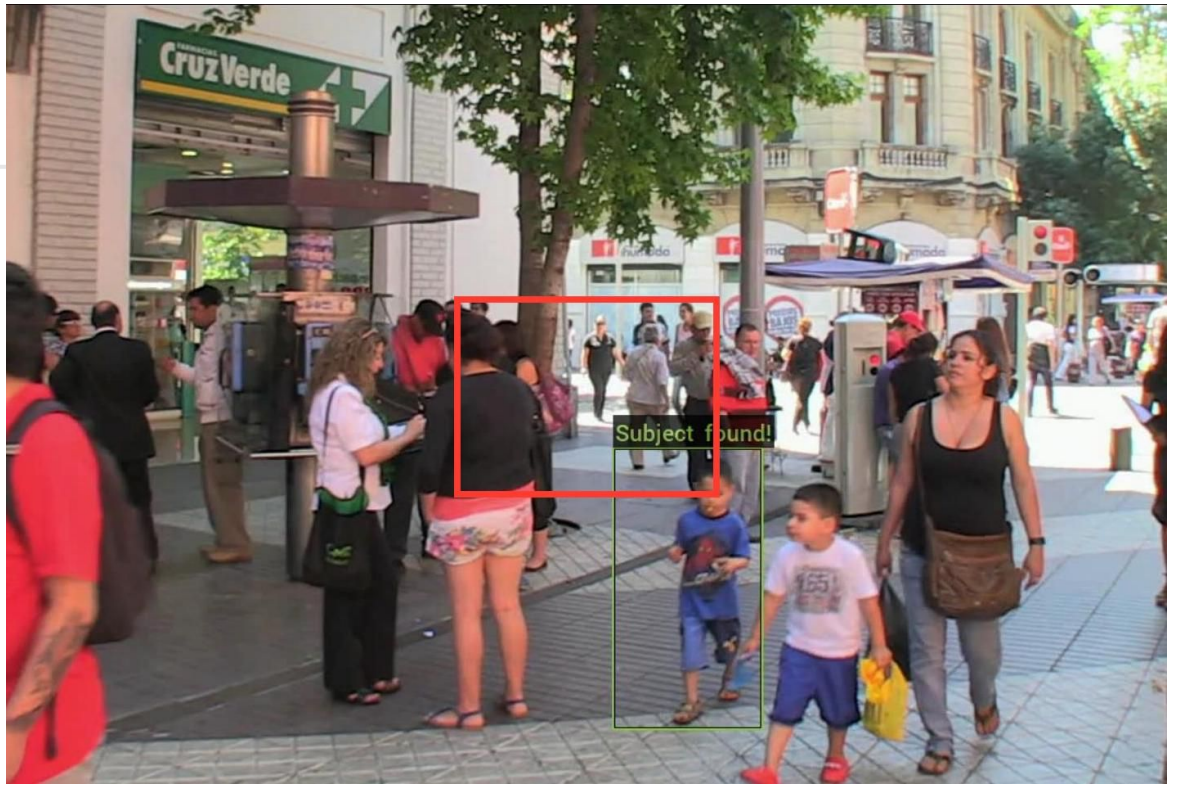
My purpose is to make the technology **easier to use**, **accessible** and with **good quality** to anybody 💡🚀.

Why democratize AI 🌏

"Personal story

Why democratize AI 🌏

"Government Industry



TensorFlow AKOUNTGO GETACLUB AIESEC STEER N°RTH Hugging Face

DeepLearning.AI subterra™ switch correlation.one DATA SCIENCE FOR ALL™

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 🚀

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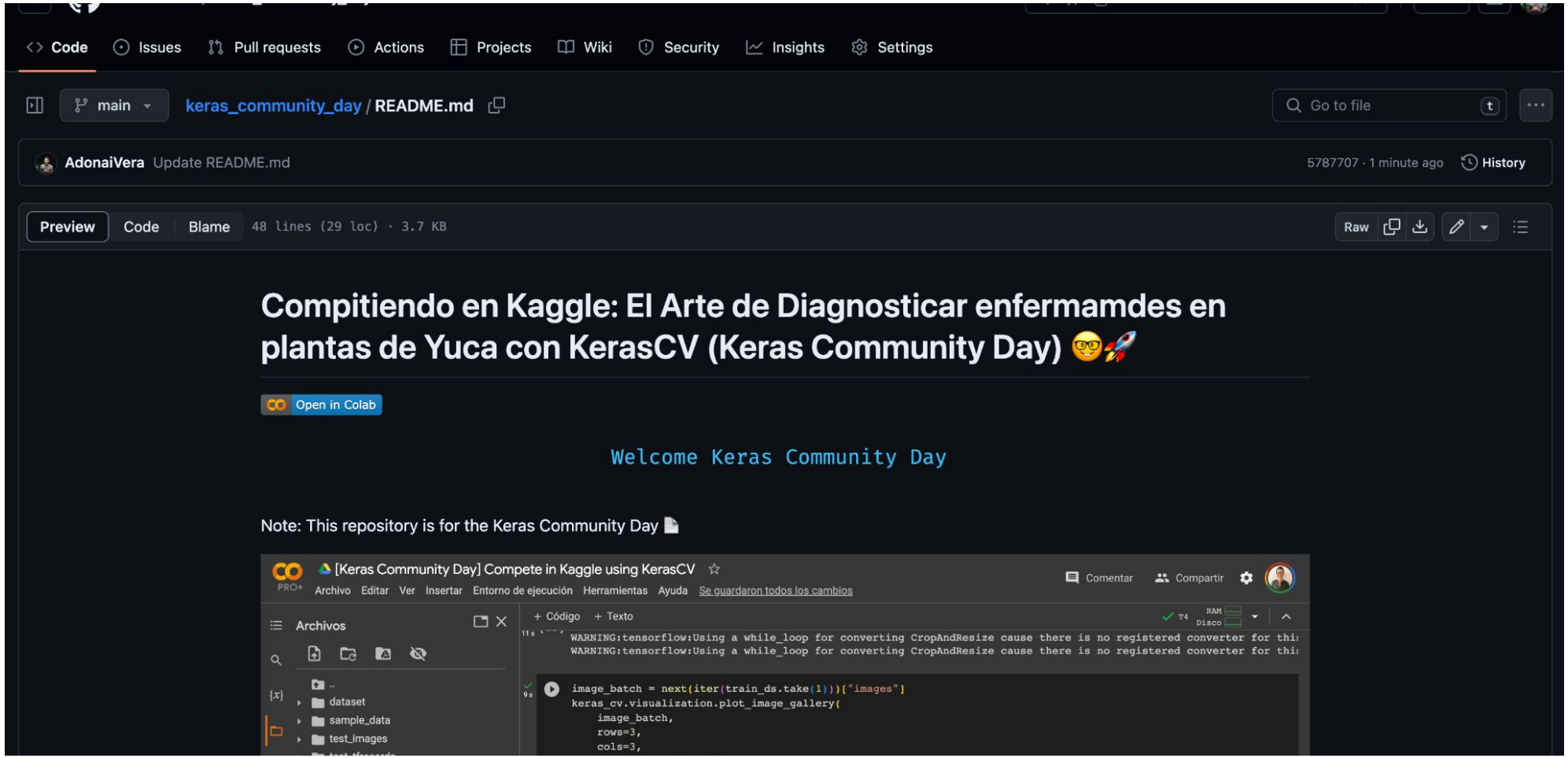
What is Artificial Intelligence

“

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



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We are students

There are not job opportunities.

This technology is not in my country yet

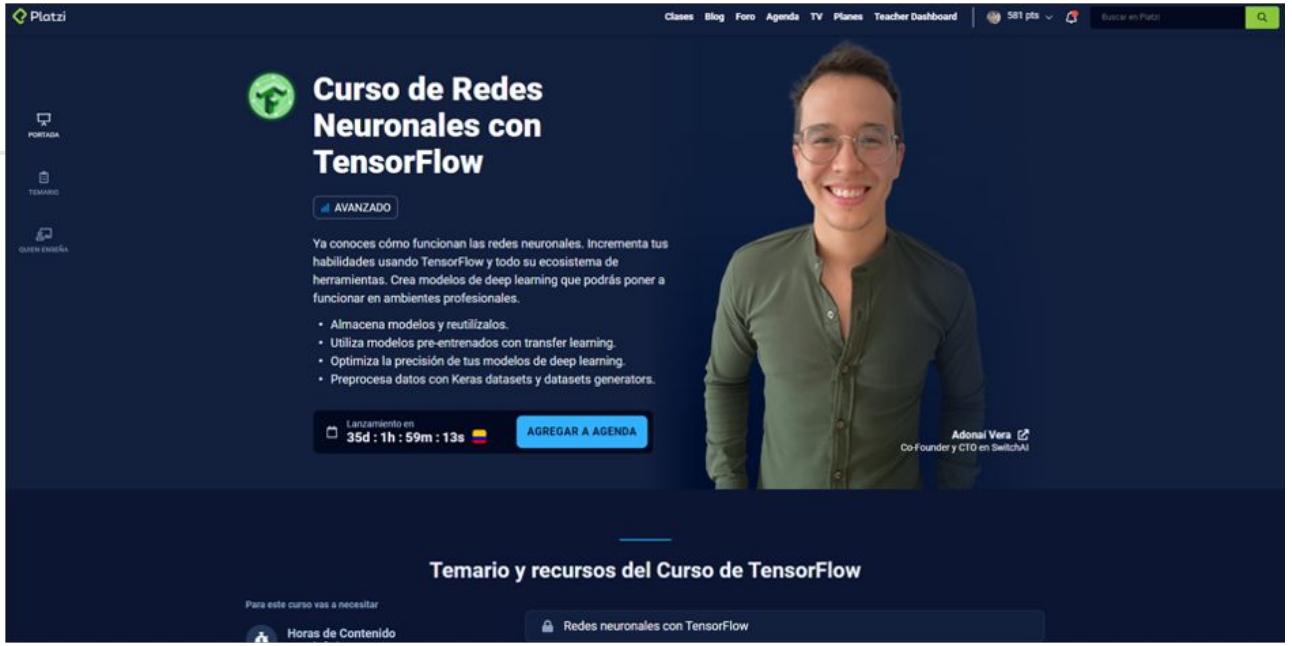
We are young people

There is not support

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



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Look no further! Here's a list of 10 beginner-friendly projects to kickstart your journey. 🚀🌎

1️⃣ Face Detection 👦👧
Project Statement: Detect faces in real-time from a webcam feed.
🛠️ Tools: OpenCV, Python
📚 Concepts: Haar Cascades, Image Processing
Difficulty Level: ⭐⭐
🔗 https://shorturl.at/lEHM8
🔗 https://lnkd.in/egU34QDE

2️⃣ Color Filtering 🌈
Project Statement: Filter out a specific color from a video feed.
🛠️ Tools: OpenCV, Python
📚 Concepts: Color Spaces, Thresholding
Difficulty Level: ⭐⭐
🔗 https://lnkd.in/eqv2ffNi

3️⃣ OCR Text Reader 📖
Project Statement: Extract text from an image.
🛠️ Tools: Tesseract, Python
📚 Concepts: OCR, Image Preprocessing
Difficulty Level: ⭐⭐⭐
🔗 https://lnkd.in/eDW6jE-h
🔗 https://shorturl.at/wEIMO

4️⃣ Object Counting 🍎🍊
Project Statement: Count the number of objects of a certain type in an image.
🛠️ Tools: OpenCV, Python
📚 Concepts: Contour Detection, Image Segmentation
Difficulty Level: ⭐⭐
🔗 https://shorturl.at/blFVY

5️⃣ Handwriting Recognition ✍️
Project Statement: Recognize handwritten digits from an image.
🛠️ Tools: TensorFlow, Python
📚 Concepts: Neural Networks, Image Classification
Difficulty Level: ⭐⭐⭐
🔗 https://lnkd.in/eDcqQutc
🔗 https://lnkd.in/eDBFNQ6m
🔗 https://shorturl.at/yCFMN

6️⃣ Image Stitching 🏞️
Project Statement: Stitch two overlapping images together to create a panorama.
🛠️ Tools: OpenCV, Python
📚 Concepts: Feature Matching, Homography
Difficulty Level: ⭐⭐⭐
🔗 https://shorturl.at/kGMO8

7️⃣ QR Code Reader 📱
Project Statement: Read QR codes from a webcam feed.
🛠️ Tools: OpenCV, Python
📚 Concepts: Pattern Recognition, Decoding
Difficulty Level: ⭐⭐
🔗 https://shorturl.at/byIWY
🔗 https://shorturl.at/knpKM

8️⃣ Traffic Sign Recognition 🚦
Project Statement: Recognize traffic signs from images.
🛠️ Tools: TensorFlow, Python
📚 Concepts: Image Classification, Neural Networks
Difficulty Level: ⭐⭐⭐
🔗 https://shorturl.at/tEJKR

9️⃣ Emotion Recognition 😃😢
Project Statement: Recognize human emotions from facial expressions in a video feed.
🛠️ Tools: OpenCV, TensorFlow, Python
📚 Concepts: Facial Recognition, Classification
Difficulty Level: ⭐⭐⭐
🔗 https://lnkd.in/eiJxD9QM

🔟 Background Subtraction 🌳🚫
Project Statement: Remove the background from a video feed.
🛠️ Tools: OpenCV, Python
📚 Concepts: Thresholding, Image Segmentation
Difficulty Level: ⭐⭐
🔗 https://shorturl.at/fmAIN
🔗 https://shorturl.at/ELOPQ

“

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

”

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