Unlocking the Power of Computer Vision with MediaPipe

MumPy

About Myself

Mediapipe

Computer Vision

Roboflow

Prezi

About Myself

- Research Intern at IIT Patna
- Ex- Data Analyst Research Intern @Illinois Institute of Technology
- ML and Tech Developer at Synapse
- Open Source Contributor :)
- Streamlit Student Ambassador
- 7x Hackathon Finalist
- Student at DJ Sanghvi College of Engineering

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Computer Vision

Examples

Basics

Tasks

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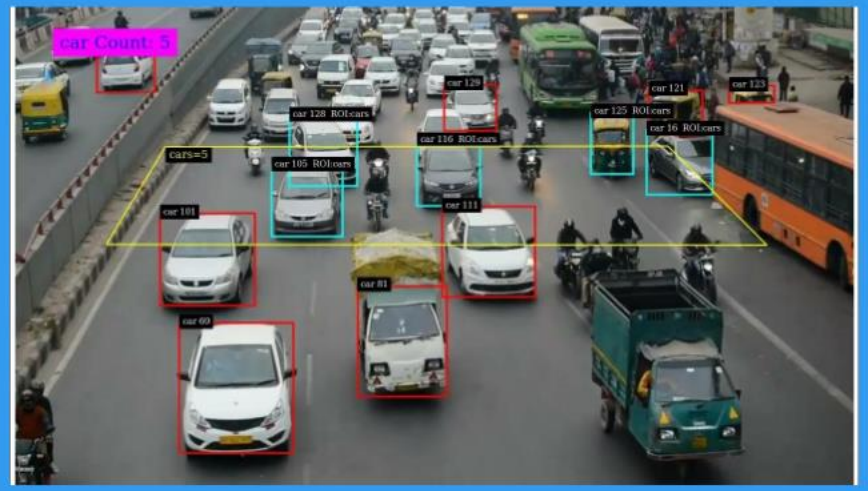
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car 129
car 121
car 123
car 128 ROI:cars
car 125 ROI:cars
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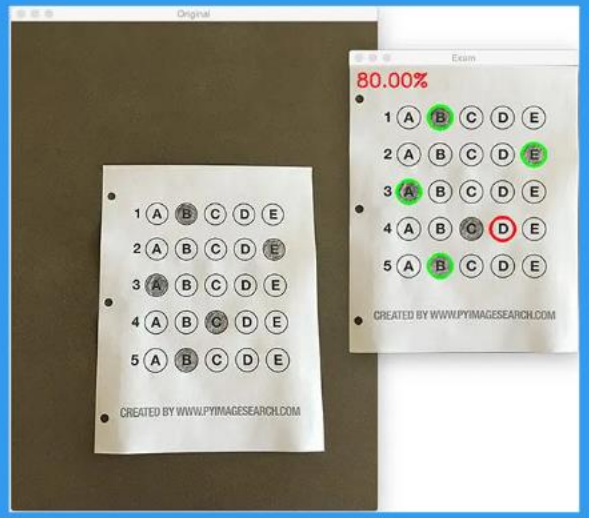
car 116 ROI:cars
car 105 ROI:cars
car 111
car 101
car 81
car 60


Original
Exam
80.00%
CREATED BY WWW.PYIMAGESEARCH.COM
CREATED BY WWW.PYIMAGESEARCH.COM

Orange

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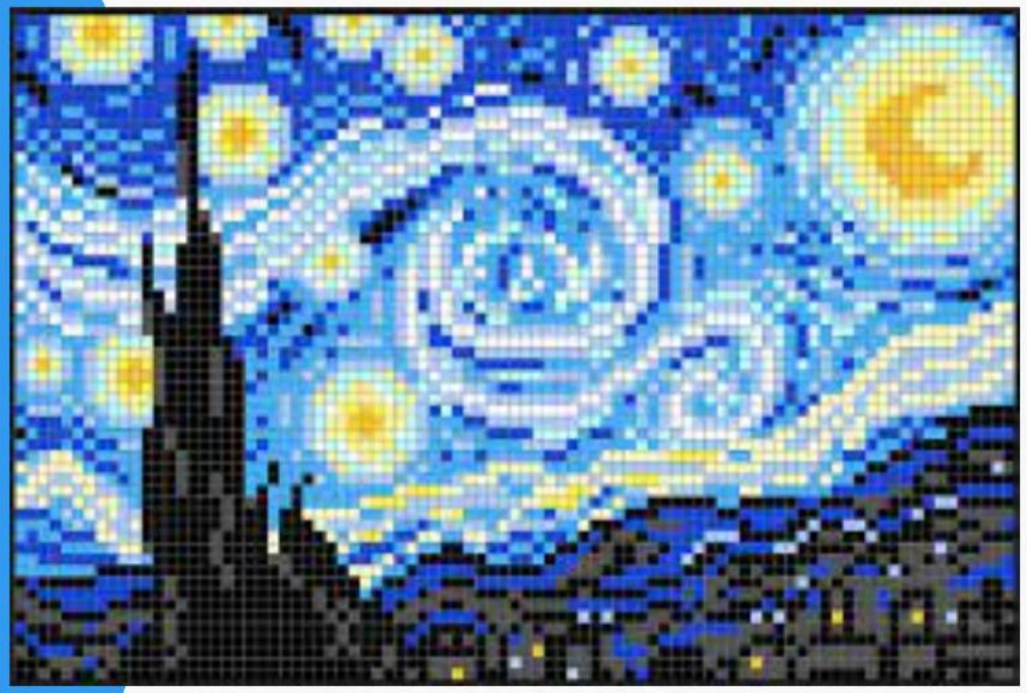
SPOT THE DIFFERENCE



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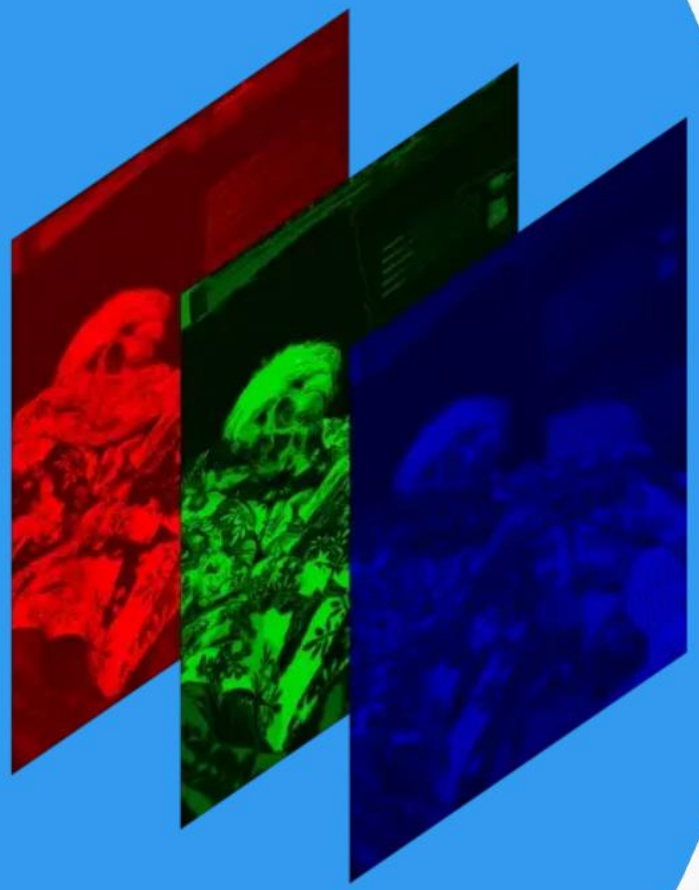
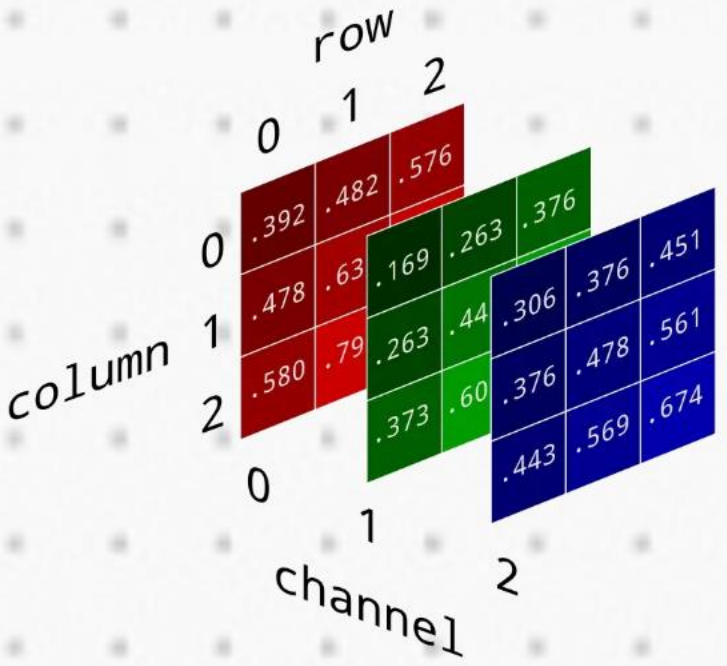
What Comprises of an Image?





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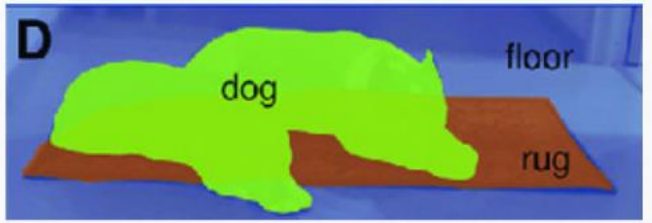
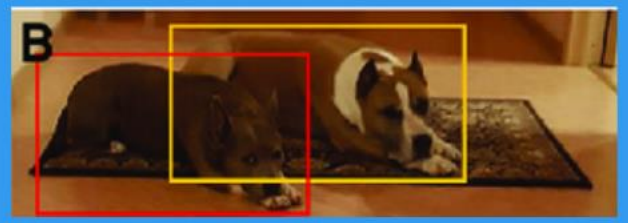
INPUT IMAGE

CLASSIFICATION



SEMANTIC SEGMENTATION



OBJECT DETECTION

INSTANCE SEGMENTATION

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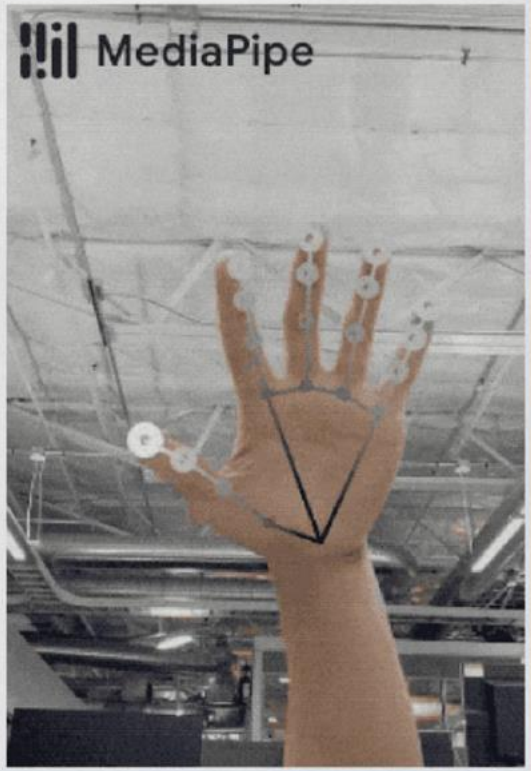
Mediapipe

IMPLEMENTATION

MediaPipe

Google Open Source



Mediapipe Tasks

Mediapipe Model Maker

Mediapipe Studio

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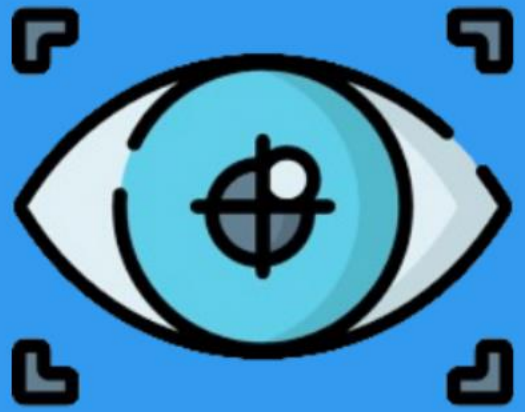
Mediapipe Tasks

AUDIO

TEXT



VISION

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Vision tasks

- Object detection
- Image classification
- Image segmentation
- Interactive segmentation
- Gesture recognition
- Hand landmark detection
- Image embedding
- Face detection
- Face landmark detection
- Pose landmark detection
- Face stylization
- Holistic landmark detection

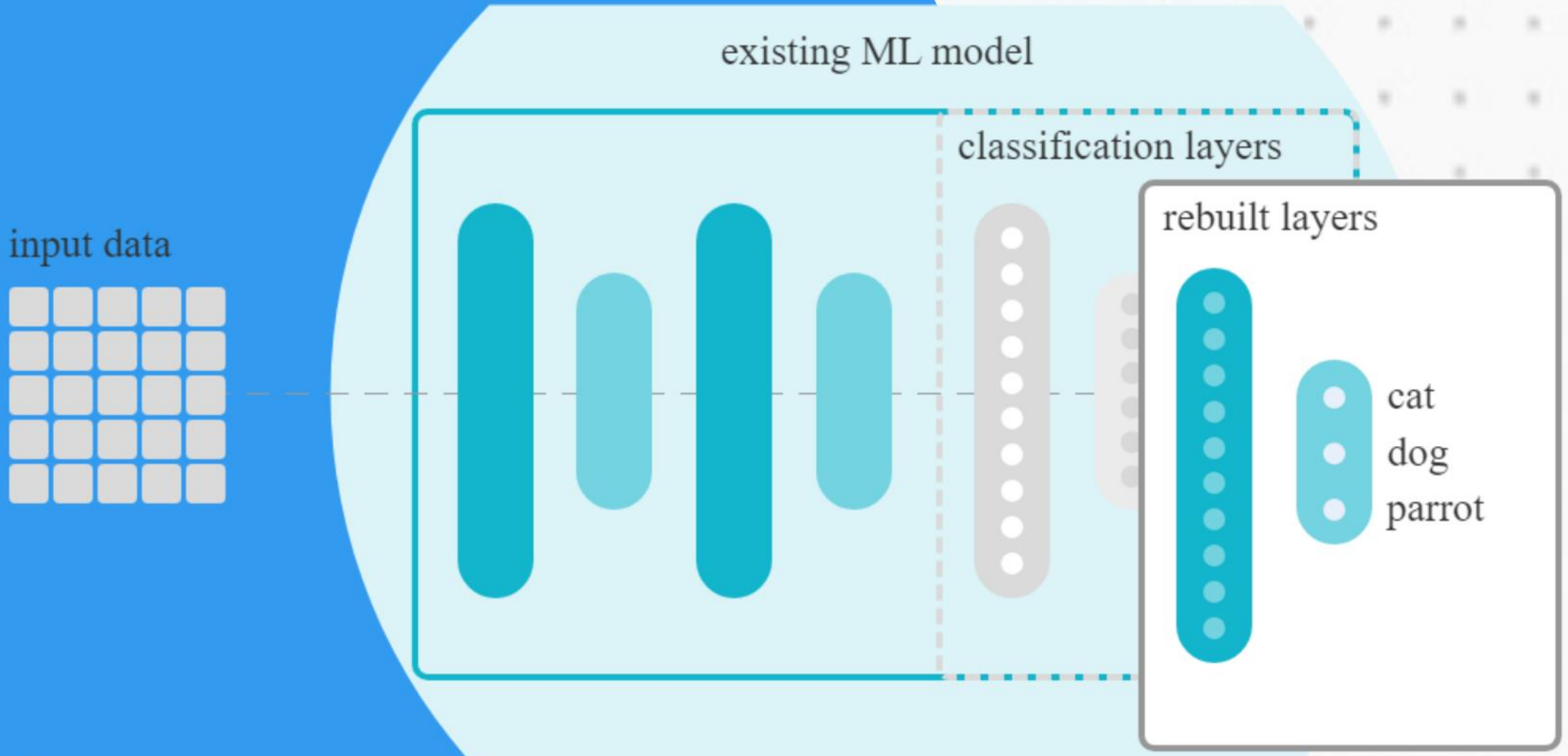
Text tasks

- Text classification
- Text embedding
- Language detection

Audio tasks

- Audio classification

STATE OF ART TRANSFER LEARNING



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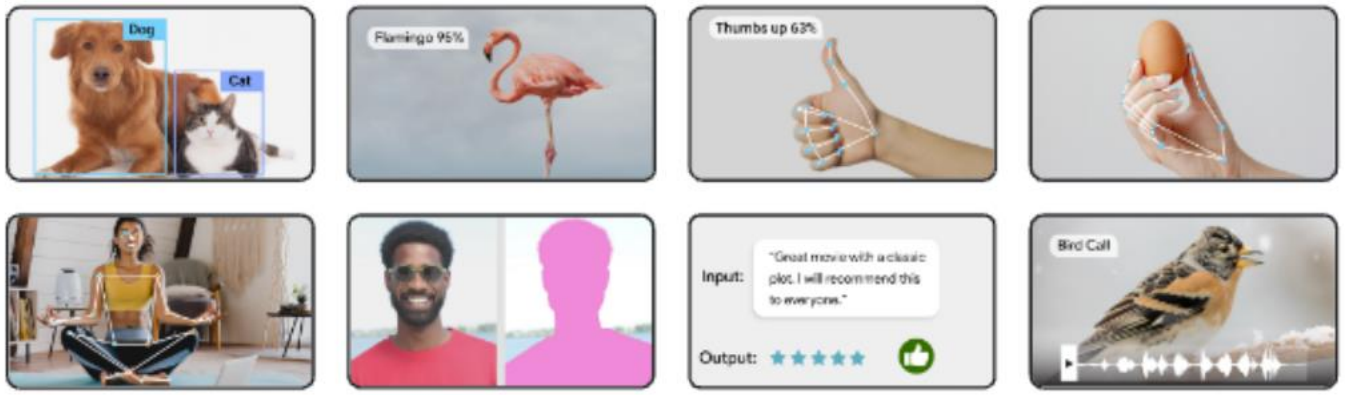
MEDIAPIPE STUDIO

Solutions



and many more!

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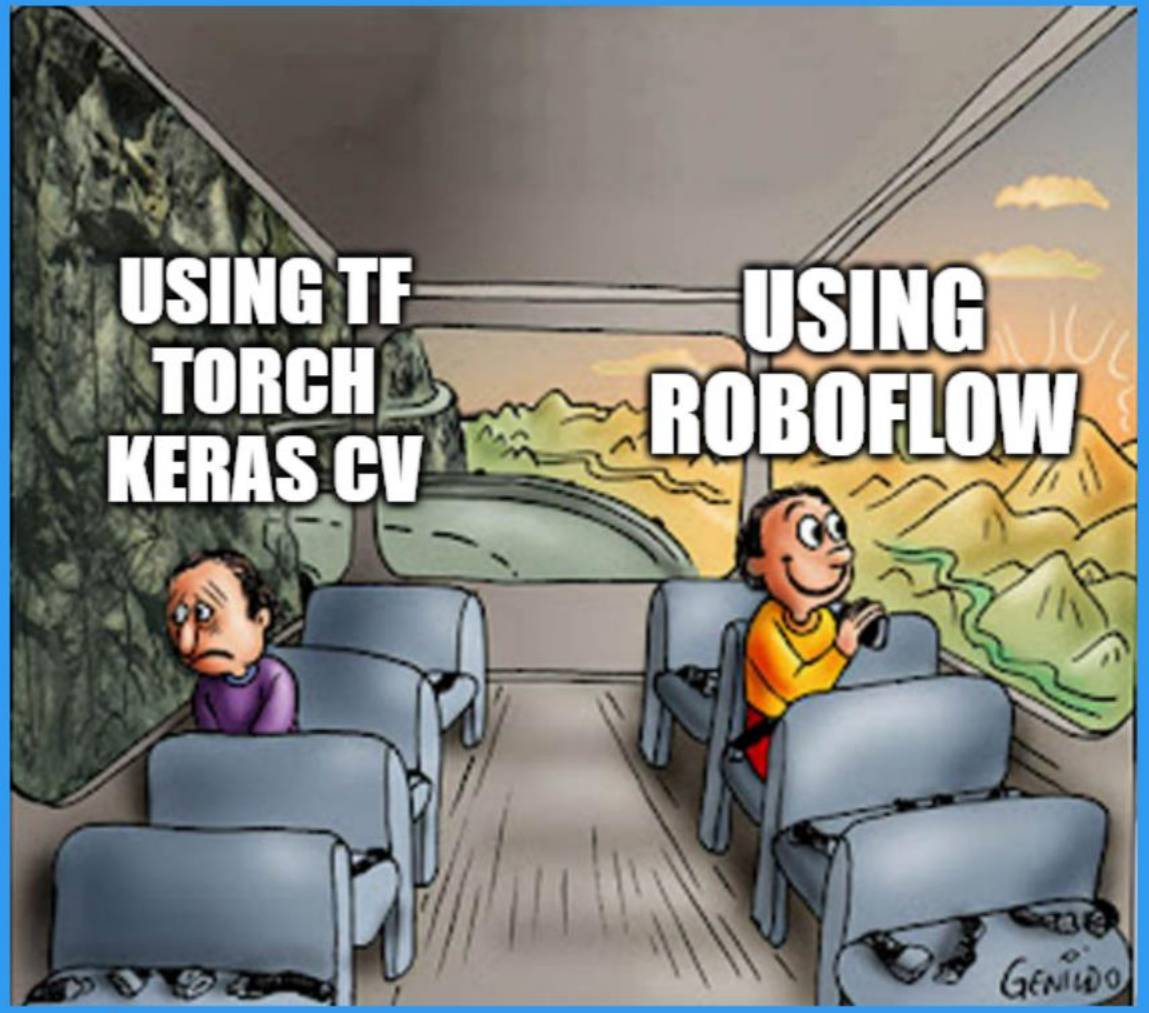

Projects

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Project Demonstration

https://github.com/MihirRajeshPanchal/Mediapipe-Workshop

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