Introduction to Computer Vision with Python

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About me

- Majoring in Data Science and AI
- Programming and hackathon enthusiast

Workshop flow

01

Why computer vision?

What is computer vision and why learn it

02

Setting up an environment

03

Libraries we'll use

Here you could describe the topic of the section

04

Image basics and Image processing

05

Mini project!

Writing code to count coins from an image using just computer vision

06

Moving forward, Q&A

Socials

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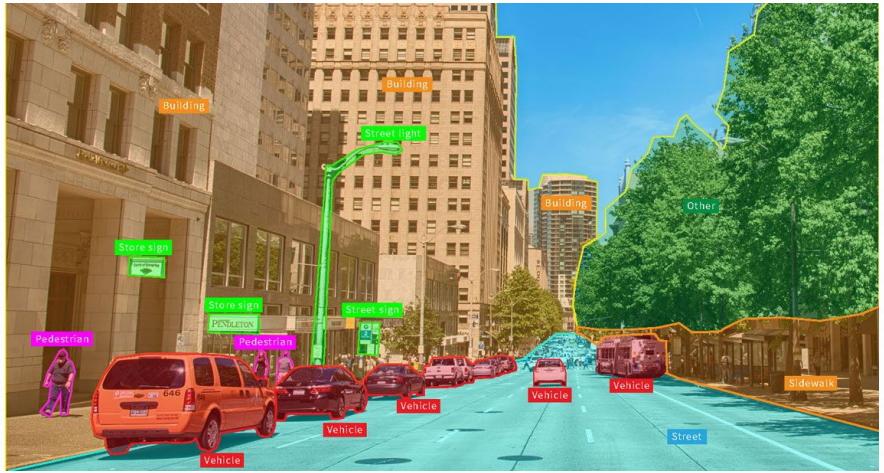
01

Why computer vision?

What is computer vision

- Computers gaining high-level understanding from digital images and video
- Understand and automate tasks we can do with our vision system
- Broad interdisciplinary field



Why computer vision

- Helps machines and robots make sense of the world around them
- Essential for a lot of the systems we use every day
  - Google lens
  - Face unlock
  - Self Driving cars

02

Setting up an environment

06

Moving forward

Areas you can further explore

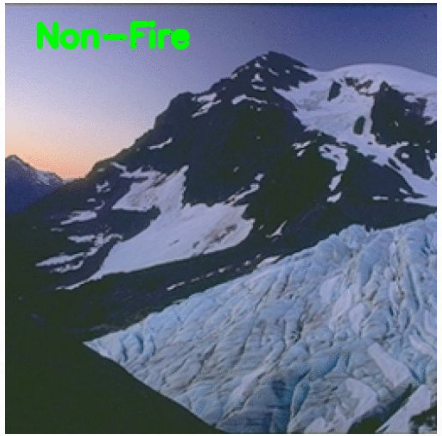
- **The in-notebook exercises included**
- **Check out this tutorial** on face detection using opencv!
- **Deep learning with pytorch to learn foundational AI and work on a project involving medical CT scans!**

Cool projects

- Neural style transfer (article and demo on colab)

Cool projects

- Fire and smoke detection - computer vision and deep learning (article and tutorial)



Closing address and Q&A

https://forms.gle/RcXZQ4cGXbmMDBXj8