

1. Name three applications of Computer Vision you can recognize on your phone
  - Face ID
  - Photos app: visual lookup
  - QR code scanner
2. Take a photo of your desk and ask ChatGPT to identify or name all the objects
  1. How many steps are involved in this identification process?
    - Preprocessing
    - Image segmentation
    - Feature extraction
    - Object detection
    - Object recognition
    - Post-processing
    - Visualisation and interpretation
  2. Can you identify any challenges for ChatGPT
    - Bad at reading book titles
    - Struggles to recognise specific makeup products
    - Assumes things that are not visible
  3. Ask ChatGPT to highlight or circle a specific item on your desk. Describe the results and possible challenges
    - ChatGPT still struggles to identify specific items, and simply hallucinates when asked to circle an item
3. Several applications involve decision-making processes that rely on Computer Vision.

Name some applications that you believe are not trustworthy or safe.

  - Facial recognition, especially when it comes to crime (can be used for racial profiling)
  - Self-driving vehicles that analyse traffic signals may be incorrect which can lead to accidents
  - Using AI to hire employees is unfair and inaccurate

#### SOURCES:

<https://www.geeksforgeeks.org/computer-vision/what-are-the-main-steps-in-a-typical-computer-vision-pipeline/>

<https://www.sciencedirect.com/science/article/pii/S2667345223000317>

<https://www.ibm.com/think/topics/computer-vision>