

Professor Salameh - Computer Vision
Research notes

1. Name three applications of Computer Vision you can recognize on your phone
Face Unlock (Biometric Security)
Augmented Reality (AR) Filters/Effects on Social Media Apps
Image Recognition and Sorting in Photo Galleries
2. Take a photo of your desk and ask ChatGPT to identify or name all the objects
 - a. How many steps are involved in this identification process?

Image Analysis → Object Recognition → Post-Processing & Description
 - b. Can you identify any challenges for ChatGPT

Ambiguity in angling, occlusion, lighting & shadows,
 - c. Ask ChatGPT to highlight or circle a specific item on your desk. Describe the results and possible challenges

Generated a new image, missing some items and changing the orientation of some items. Highlighted the object but changed the angle.
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 for law enforcement or surveillance
AI-powered hiring or admissions screening

Sources:

https://en.wikipedia.org/wiki/Computer_vision
<https://www.ibm.com/think/topics/computer-vision>
<https://www.hyperscience.ai/resource/computer-vision/>