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Chapter 1

Background Research

1.1 What is computer vision?

Computer vision (CV) is a scientific discipline that studies how computers can efficiently perceive, process, and understand information from visual data such as images and videos.

As humans, we can classify three-dimensional objects with ease. Whether there are multiple pictures of the same object with different colours or angles, we are good at determining the object we are classifying.

Computer vision has been developed to detect edges from a pixelated image, face detection, and has been used to develop 3D models from a snapshot. Yet the technology

1.2 Neural networks