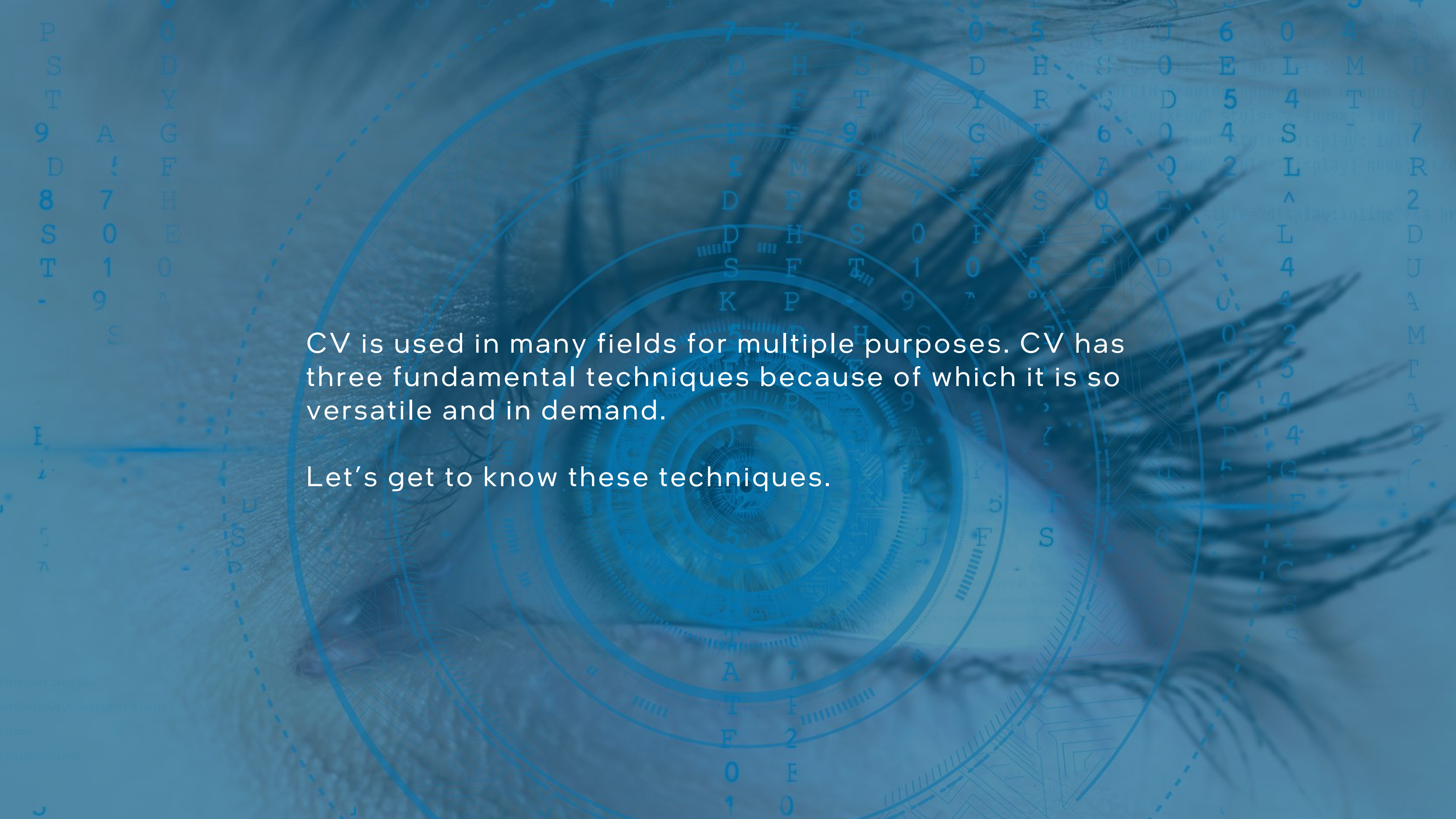


COMPUTER VISION: YOUR SELF-LEARNING PLAN

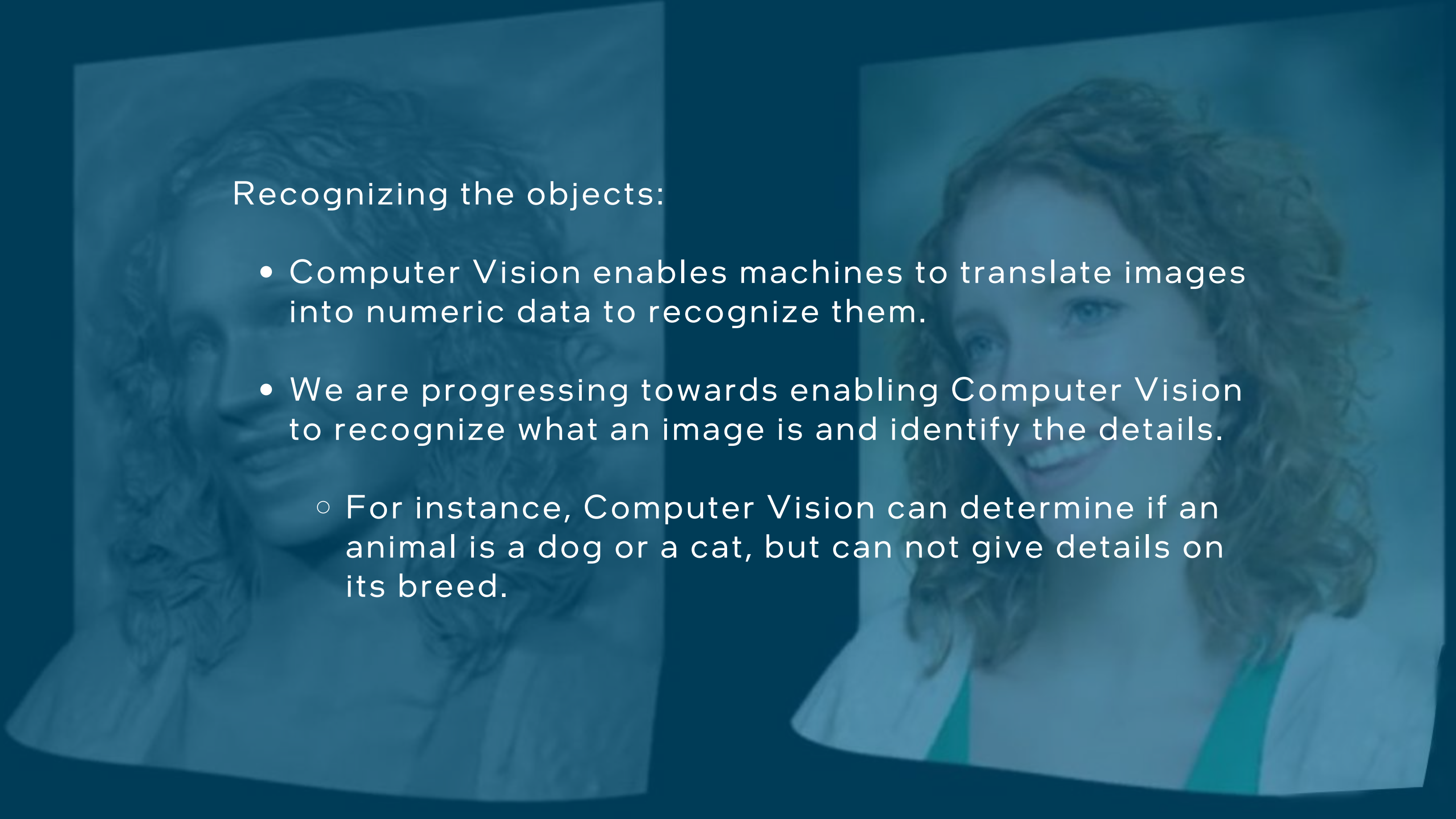
As you have seen, Computer Vision helps machines see!

- AI uses Computer Vision to understand digital data.
- This domain is used by machines to extract data from images and videos.
- Computer Vision automates tasks that the human eye does.
- Many applications like navigation, facial-recognition app, Google Translate, smart-tagging uses CV.



CV is used in many fields for multiple purposes. CV has three fundamental techniques because of which it is so versatile and in demand.

Let's get to know these techniques.

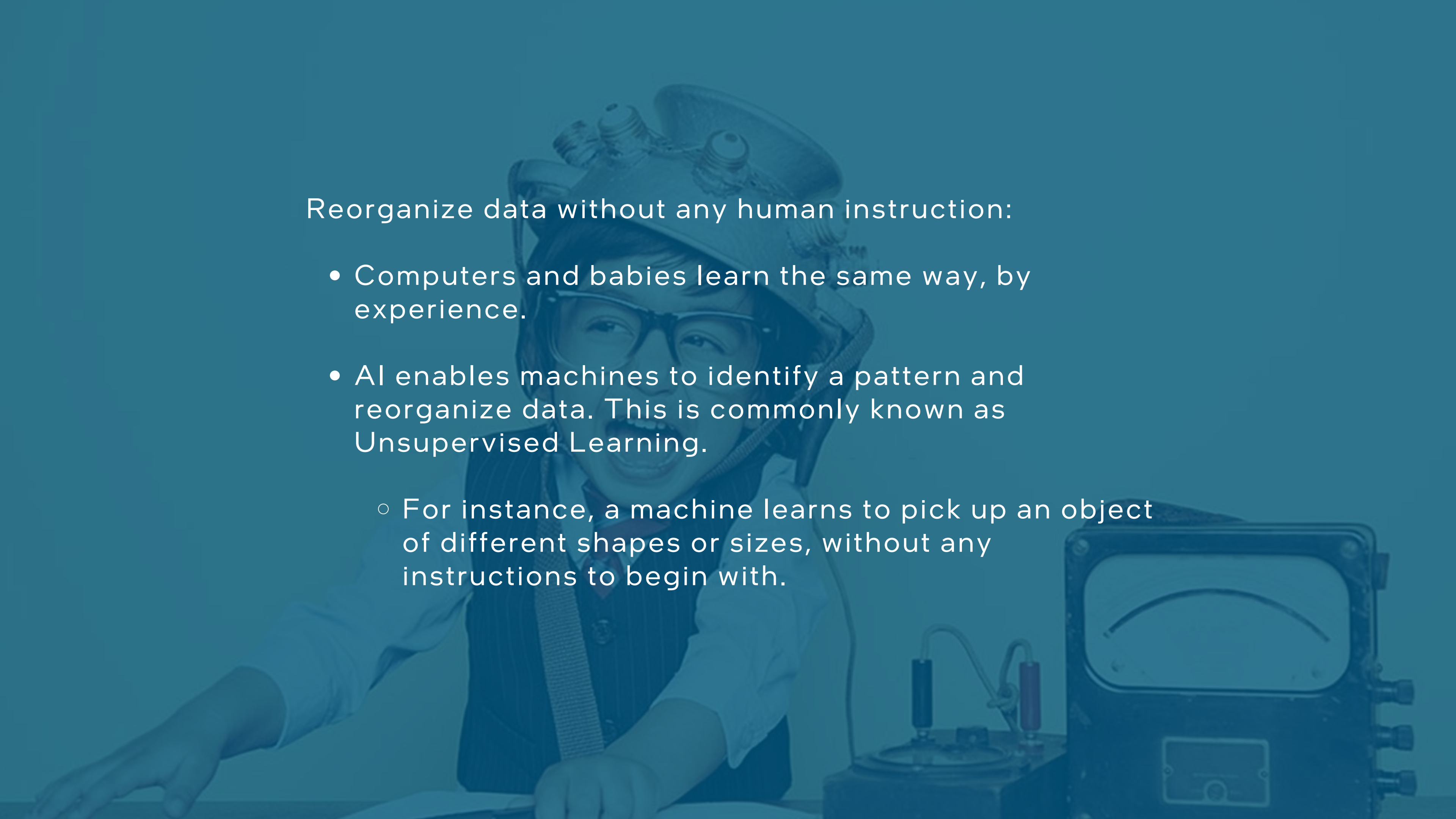


Recognizing the objects:

- Computer Vision enables machines to translate images into numeric data to recognize them.
- We are progressing towards enabling Computer Vision to recognize what an image is and identify the details.
 - For instance, Computer Vision can determine if an animal is a dog or a cat, but can not give details on its breed.

Reconstruction of 2D image data to 3D images:

- When we provide a photo to any machine, it is almost always in a 2D format.
- AI takes this 2D data and creates a 3D image.
 - An example of this is how facial filters on social media adjust and fit according to your face.

A young boy with glasses and a head-mounted display (HMD) is sitting at a desk. He is wearing a white shirt and a dark vest. He is looking up and to the right with a smile. On the desk in front of him are various electronic components, including a breadboard with wires and a large black box with a screen and buttons. The background is a solid blue color.

Reorganize data without any human instruction:

- Computers and babies learn the same way, by experience.
- AI enables machines to identify a pattern and reorganize data. This is commonly known as Unsupervised Learning.
 - For instance, a machine learns to pick up an object of different shapes or sizes, without any instructions to begin with.

THAT WAS QUITE INTERESTING, RIGHT?



Want to know more about Computer Vision?



Search for 'Online Pictionary'

- You can have fun playing this game; all you have to do is draw well.
- For example, google draw



Search for 'Teachable Machine'

- You can train your computer to recognize images!
- For example, Google teachable machine