#### **COMPUTER VISION**

- Enable AI applications to "see" the world and make sense of it.
- Uses for computer vision:
  - Content Organization
  - Text Extraction
  - Spatial Analysis

# **AZURE RESOURCES FOR COMPUTER VISION** Computer Vision Cognitive Services



#### ANALYZING IMAGES WITH THE COMPUTER VISION SERVICE

- · Describing an image
- Tagging visual features
- · Detecting objects
- Detecting brands
- · Detecting faces
- Categorizing an image
- · Detecting domain-specific content
  - Celebrities
  - Landmarks
- · Optical character recognition

## DETECT AND ANALYZE FACES WITH THE FACE SERVICE

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- Facial analysis
- Facial recognition

#### **USES OF FACE DETECTION AND ANALYSIS**

- Security
- · Social media
- Intelligent monitoring
- Advertising
- Missing persons
- Identity validation

#### MICROSOFT AZURE PROVIDES MULTIPLE COGNITIVE SERVICES

- Computer Vision
- Video Indexer
- Face

#### **AZURE RESOURCES FOR FACE**

- Face
- Cognitive Services

### CLASSIFY IMAGES WITH CV

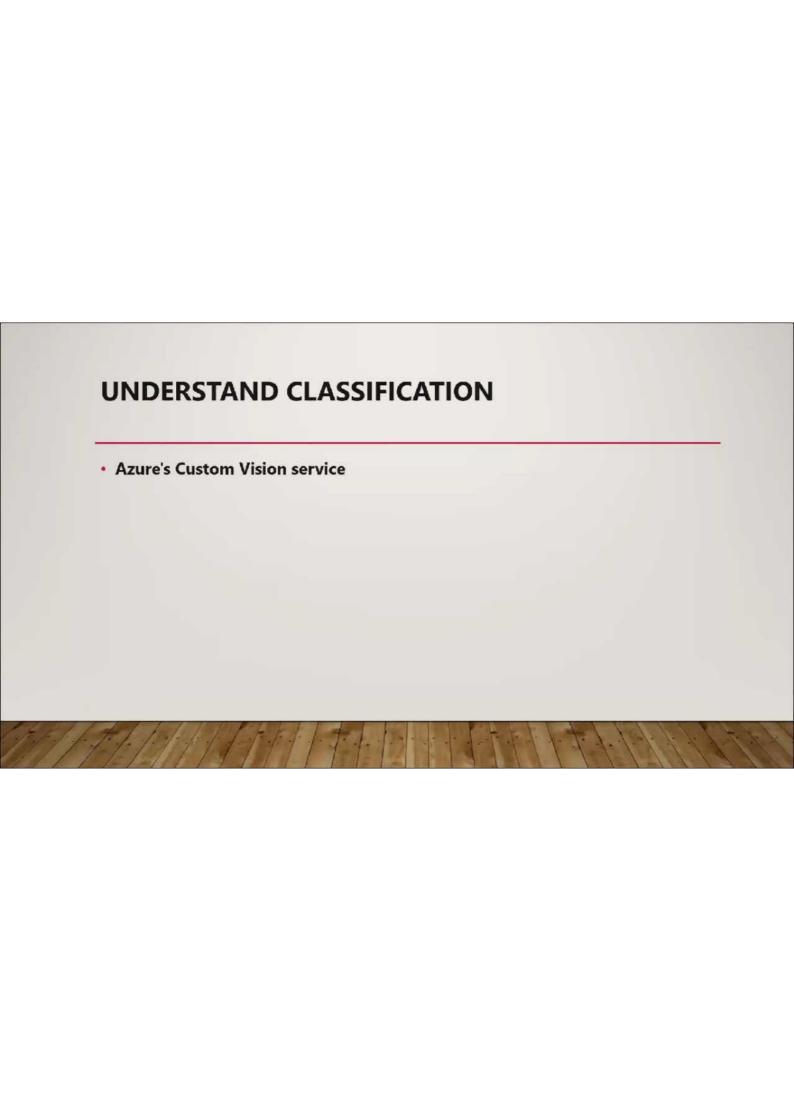


#### **USES OF IMAGE CLASSIFICATION**

- · Product identification
- Disaster investigation
- Medical diagnosis

#### **LEARNING OBJECTIVES**

- Identify image classification scenarios and technologies
- Provision a Custom Vision resource and use the Custom Vision portal
- Train an image classification model
- Publish and consume an image classification model



#### **AZURE RESOURCES FOR CUSTOM VISION**

- Custom Vision
- Cognitive Services
- Model training
- Model evaluation
  - Precision
  - Recall
  - Average Precision (AP)
- · Using the model for prediction