

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**

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- **Key**
 - **Endpoint**

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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- **Face detection**
 - **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

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- It harnesses the predictive power of machine learning to enable AI systems to identify real-world items based on images.

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

UNDERSTAND CLASSIFICATION

- **Azure's Custom Vision service**

AZURE RESOURCES FOR CUSTOM VISION

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