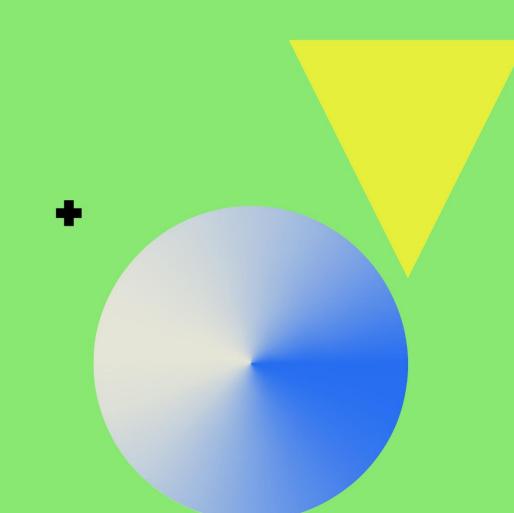
Azure Cognitive Services

Asen Lichkov – Focus Sales Manager Azure





THE FUTURE OF AI IS NOW

► AI ADOPTION CONTINUES TO ACCELERATE

95%

Of enterprises consider AI technology to be important for their digital transformation efforts

► AI IS NOT THE FUTURE, IT IS NOW

80%

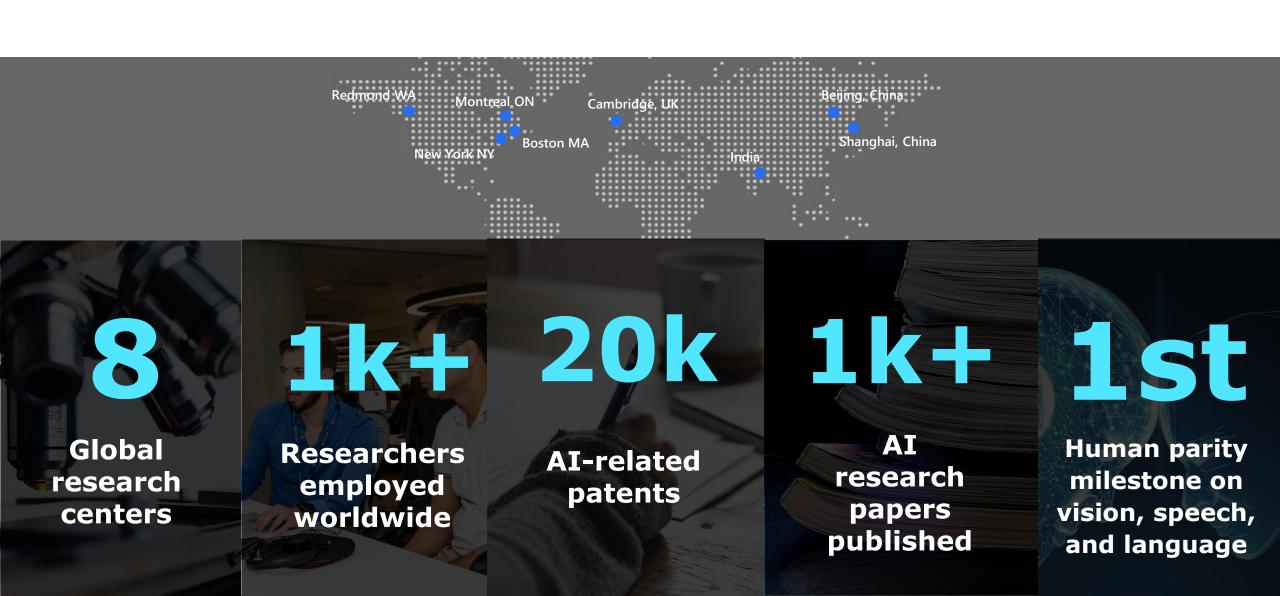
Of enterprises report that they are using some form of AI in production

► DELIVERING BUSINESS RESULTS

81%

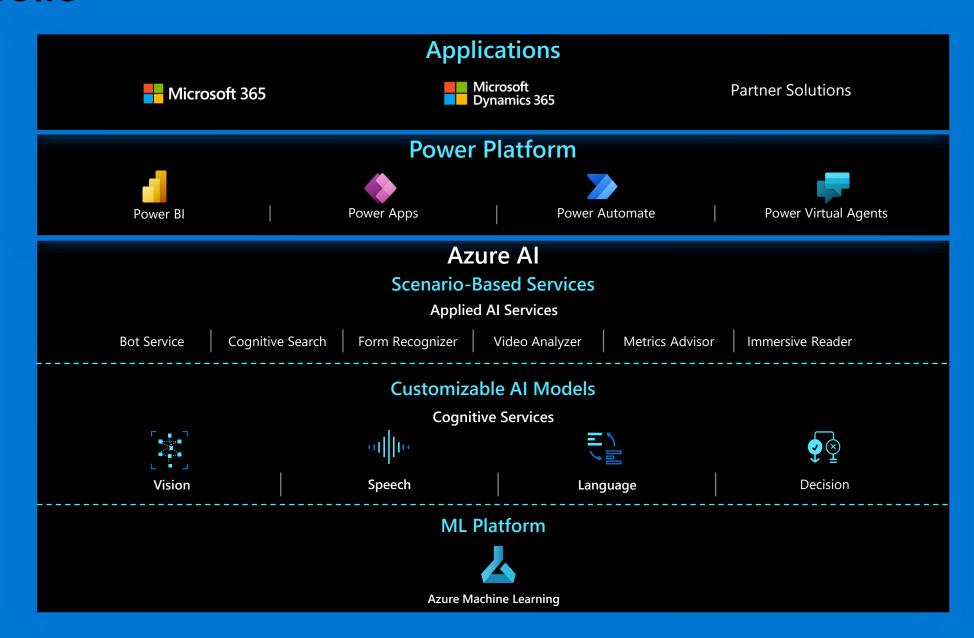
Of enterprises report positive ROI in less than two years

AI INNOVATION FUELED BY RESEARCH



Al Portfolio

Microsoft Portfolio for Al



Microsoft continuing to lead the market

Gartner

- Magic Quadrant
 - Leader
- 2021 Cloud Al Developer Services
- 2021 Analytics & Business Intelligence Systems
- 2020 Cloud Database Management Systems

FORRESTER®

- Forrester Wave
 - Leader
- 2020 Notebook-based Predictive Analytics & Machine Learning
- 2019 Computer Vision Platforms
- 2019 Cognitive Search

IDC

- ► IDC MarketScape
 - Leader
- 2020 Worldwide
 Advanced Machine
 Learning Software
 Platforms
- 2019-2020 Worldwide General-Purpose Artificial Intelligence Software Platforms

Gartner

- Magic Quadrant
 - Visionary
- 2021 Data Science and Machine Learning Platforms
- 2020 Data Science and Machine Learning Platforms

Source:

Source:

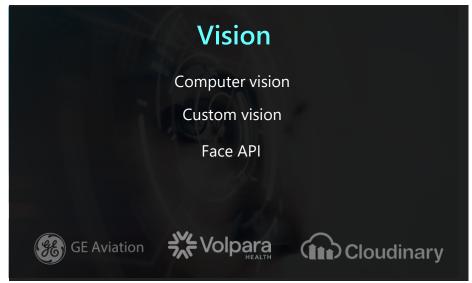
Source

Source:

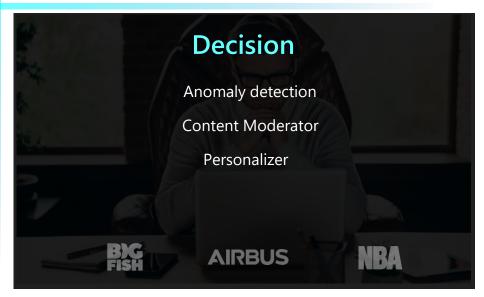
► Forrester AML Report

AZURE COGNITIVE SERVICES













ACCELERATE AI MODELS WITH COGNITIVE SERVICES



Customizable pretrained models

Built with breakthrough
Al research



Deploy anywhere

Cross-cloud and edge support with containers



No ML expertise required

Get started quickly regardless of experience level



Responsible AI in action

Develop responsibly and empower responsible use

SPEECH TRANSCRIPTION & ANALYTICS

44%

85%

without sound 1

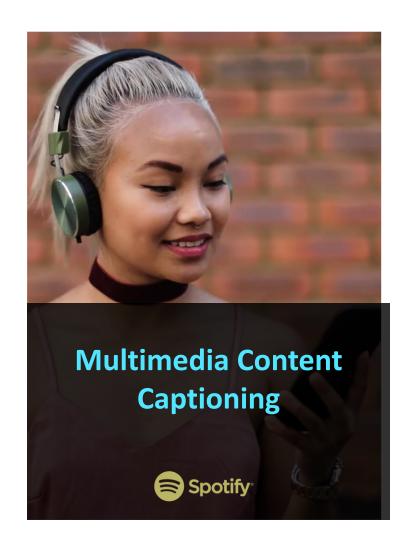
Of videos are watched

on Facebook every day

Of experts think that web conferencing transcription has experienced the













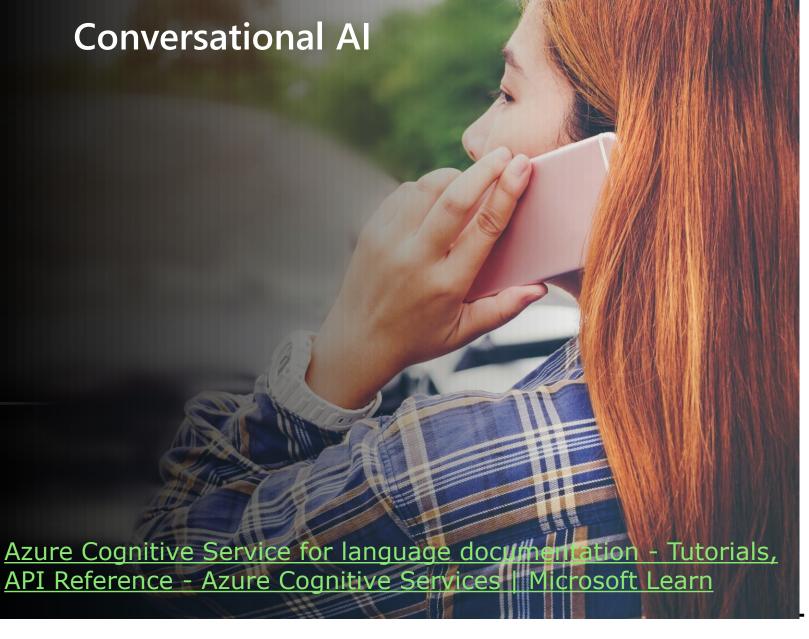


End users prefer chatbots as the primary mode of communication for customer_service ¹

1B



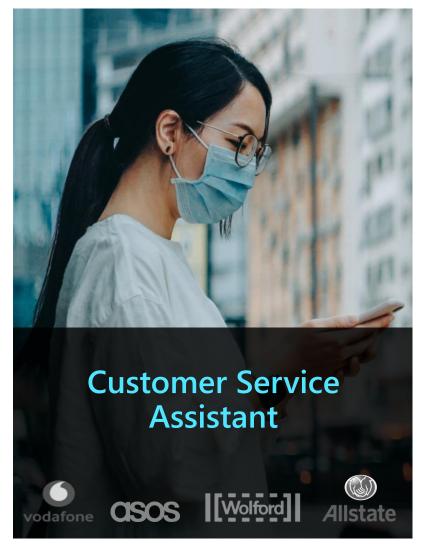
Service tickets will be raised automatically by chatbots and virtual agents – or their nearfuture cousins by 2030 ²

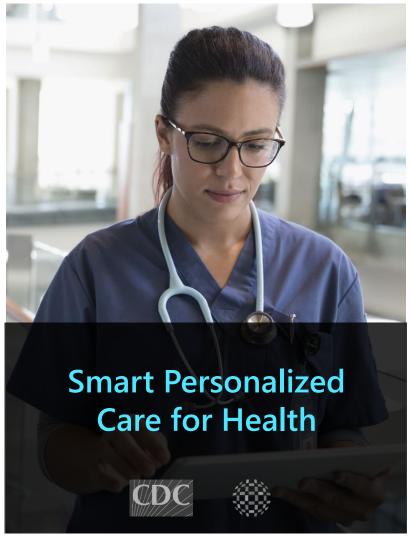


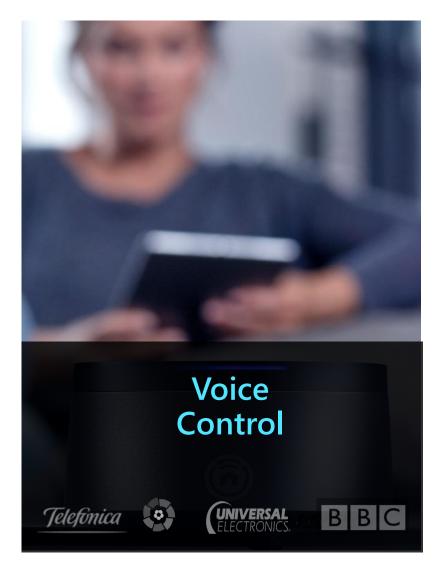




Conversational Al











Transforming customer service with Conversational Al

96 K Active bots run on Azure 29B
Monthly messages

100M

Azure Health Bot users

















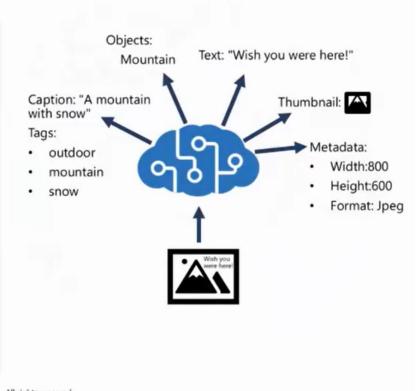




VISION API

The Computer Vision Service

- Image analysis:
 - · Description and tag generation
 - · Object detection
 - · Face detection
 - · Image metadata, color, and type analysis
 - Categorization including, celebrity and landmark identification
 - Brand detection
 - · Moderation ratings
 - · Optical character recognition
 - · Smart thumbnail generation
- Can be used as:
 - Standalone Computer Vision resource
 - Multi-service Cognitive Services resource



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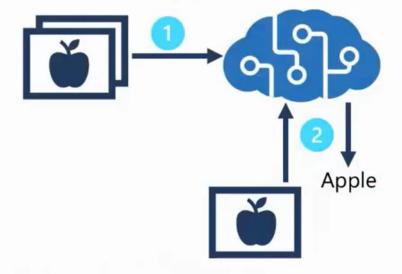
What is Computer Vision? - Azure Cognitive Services | Microsoft Learn





The Custom Vision Service

- Train custom models with your own images
 - Image classification
 - Object detection
- Requires two kinds of resource:
 - Training Resource:
 - Cognitive Services
 - Custom Vision (Training)
 - Prediction Resource:
 - Cognitive Services
 - Custom Vision (Prediction)



- 1. Use your own images to train a model
- 2. Use the model to predict labels for new images

What is Custom Vision? - Azure Cognitive Services | Microsoft Learn





Face Detection with the Computer Vision Service

Use the **Analyze Image** function, specifying **Faces** as a visual feature

Note: age and gender are depreciated and unavailable to new customers

```
https://{endpoint}/vision/v3.1/analyze?visualFeatures="Faces"

Body:
    {"url": "http://path-to-image}
    or
    [ binary-image-data]
```

```
"faces": [
      "age": 32,
      "gender": "Female",
      "faceRectangle": {
        "top": 225,
        "left": 237,
        "width": 130,
        "height": 130
      "age": 29,
      "gender": "Female",
      "faceRectangle": {
        "top": 309,
        "left": 534,
        "width": 119,
        "height": 119
```

What is the Azure Face service? - Azure Cognitive Services | Microsoft Learn







CHATBOT AND TEXT TO SPEECH DEMO

GET STARTED WITH AZURE COGNITIVE SERVICES

Azure Cognitive Services Documentation: <u>Azure Cognitive Services documentation | Microsoft Learn</u>

AI 900 Microsoft Azure AI Fundamentals training: <u>AI-900 - Training | Microsoft Learn</u>

AI-102: Designing and Implementing a Microsoft Azure AI Solution: <u>Exam AI-102: Designing and Implementing a Microsoft Azure AI Solution - Certifications | Microsoft Learn</u>

Real life solutions, including Azure Cognitive Services:

VEGAS Creative Software gives video makers natural-sounding voiceover using Azure Cognitive Services

NBA accelerates modern app time to market to ramp up fans' excitement

KPMG helps banking customers identify financial risks by unifying data with Azure Al

Spanish telco builds digital assistant based on natural language bot, engages customers on new level

Microsoft Customer Story-Nature-inspired beauty products provider, Oriflame, optimizes selling processes using Microsoft Azure





THANK YOU