



**ENIGMA
TECHNOLOGY
EXPERTS**

إنيجما خبراء التكنولوجيا

شركة الأحجية لتقنية المعلومات

Microsoft AI Services and Use cases

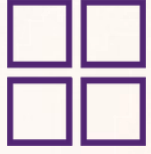
Introduction



This presentation showcases the extensive capabilities and innovative solutions we provide, built on Microsoft technologies with a strong focus on AI services. Our expertise spans across three core areas: Azure AI, AI Builder, and Copilot Studio, enabling us to deliver tailored and impactful AI-driven solutions.

We bring a wealth of experience gained from working with diverse customers across various industries, addressing complex challenges through advanced AI implementations. This presentation features real-world use cases where our solutions have been successfully deployed, solving critical customer challenges such as enhancing operational efficiency, improving decision-making, and driving business growth.

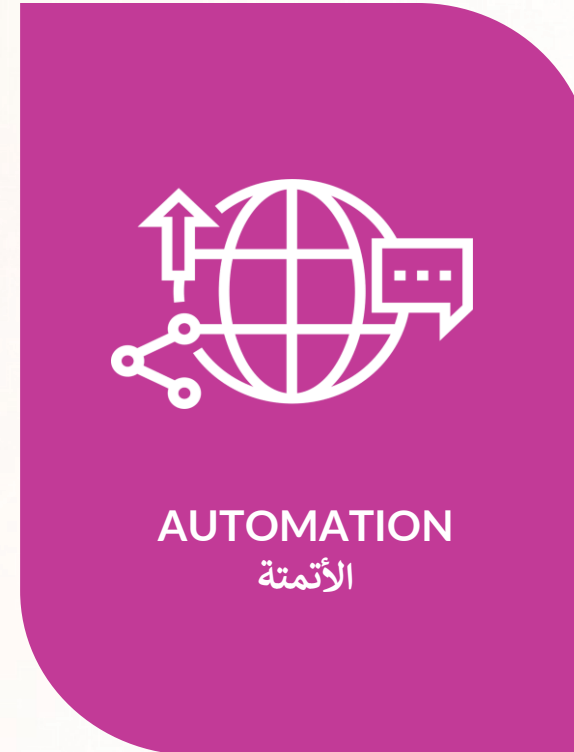
By leveraging our in-depth knowledge and proven expertise, we empower organizations to harness the potential of AI to transform their business processes and achieve measurable results.



MICROSOFT SERVICES

Automation

- Digital Workforce & Hyper-automation
- Robotics Process Automation
- Intelligent Automation
- Intelligent Document Processing
- AI Powered Chat Bots



Application Modernization

- Enterprise low-code application platforms
- Multi-experience development platforms
- Internet and Intranet Portal
- Custom Application Development
- Enterprise Mobile Apps
- Legacy Modernization

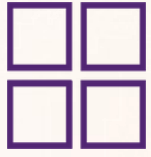
Data & AI

- AI & Machine Learning
- Advanced & Predictive Analytics
- Data Discovery & Visualization
Analytic Process Automation
- Data Preparation



Enterprise Information Management

- Business Process Management
- Intelligent Document Capture
- Collaboration & Digital Workspace
- Digital Signature
- Records & Document Management
- Document Delivery
- Output Management



AI SERVICES

Azure AI

Azure AI Vision

Optical character recognition (OCR)

Facial recognition

Video Indexer

Extract named entities

Translation

AI Document Intelligence

Transcribe speech to text

AI Builder

Extract information from invoices

Extract custom information from documents

Extract all the text in photos and PDF documents (OCR)

Extract information from identity documents

Classify customer feedback into predefined categories

Extract custom entities from your text

Predict future outcomes from historical data

Detect custom objects in images

Generate description of an image

Copilot Studio

AI Powered Chatbots

Transactional Chatbots

Trainable chatbot with specific knowledge sources

Advanced NLP capabilities

Customizable workflows

Contextual understanding

Support for multiple languages



AZURE AI SERVICES

Decision

Anomaly Detector
Content Moderator

Language

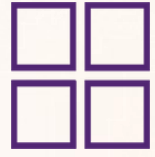
Entity recognition
Sentiment analysis
Translator

Speech

Speech to text
Text to speech

Vision

Face Verification and Recognition
Text extraction (OCR)
Handwritten Text extraction



AI BUILDER

Documents



- Forms Processing
- OCR / Text Recognition
- Invoices Processing
- Receipt Processing
- ID Reader (Passports & US driver's licenses)
- Business cards Reader

Language



- GPT
- Text Categorization
- Entities Extraction
- Key phrases Extraction
- Language Detection
- Sentiment Analysis
- Language Translation

Images

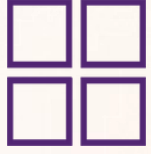


- Object Detection
- Image Classification

Structured Data



- Quantity Prediction
- Outcomes Prediction



Copilot Studio

CONNECT AND EXTEND



M365 Copilot



Azure AI Foundry



Power Apps



Power Pages



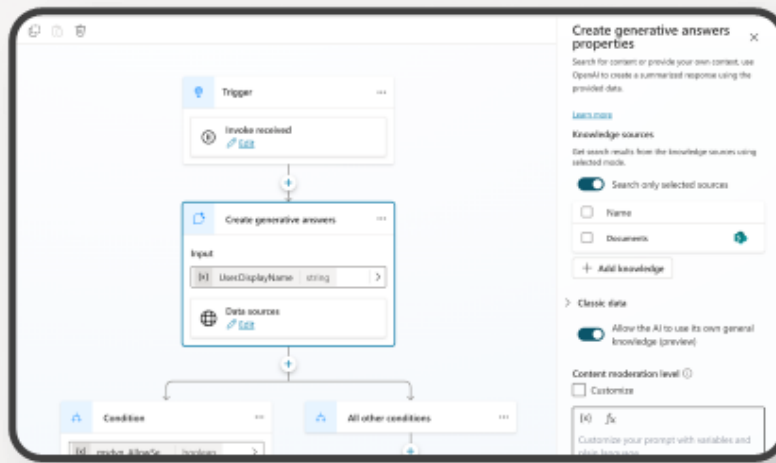
Teams



Dynamics 365

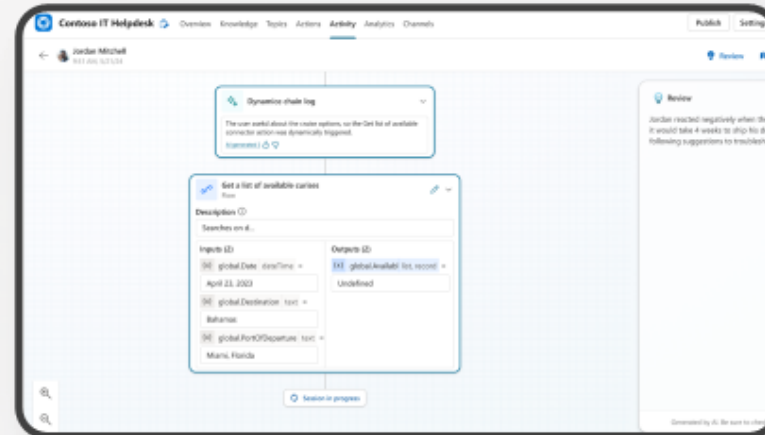
Generative Conversations

Generative Answers



Copilot Studio boosts conversational coverage by dynamically generating multi-turn answers based off an organization's content in real-time in response to unanticipated questions.

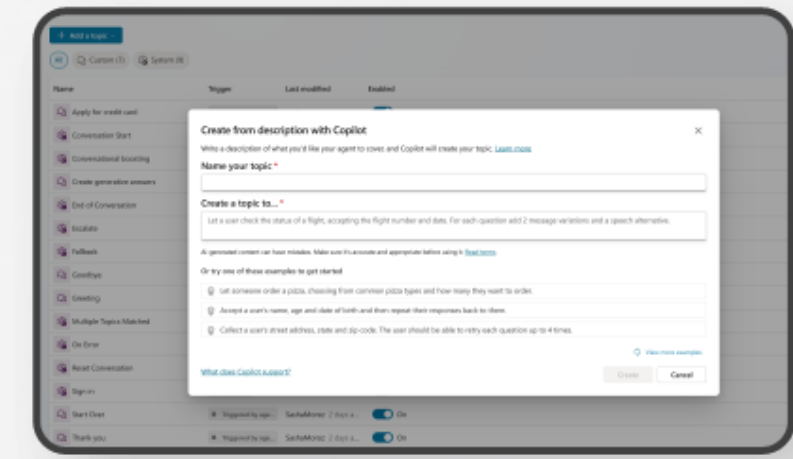
Generative Actions



Copilot Studio generates dialog and takes action through dynamically chaining existing building blocks which can handle queries that were not anticipated or previously built.

Generative Assistance

Generative building



Assisted authoring to build, design and modify agents through natural language.

External

3P Search APIs

External URL

Internal

OneDrive URL

Documents

SharePoint URL

Tools

Power Platform Connectors

Topics

Skills

Power Automate Flows

Edit & Refine

Topics

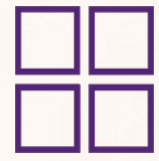
Trigger Phrases

Entities

Variables

Adaptive Cards

Branching



Microsoft Power Platform

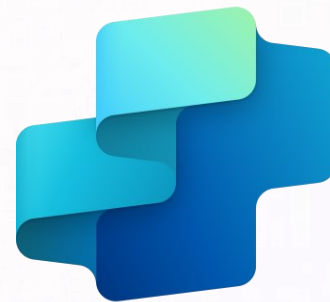
 **AI Copilot enabled** 



Power Apps
for
web and mobile
application
development



Power Automate
for
process
or workflow
automation



Copilot Studio
for
chatbots and
conversational
agents



Power Pages
for
building secure,
data-centric
business websites



Power BI
for
data exploration,
analytics and
reporting



**Data
connectors**



AI Builder



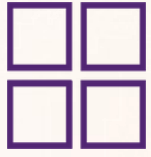
**Microsoft
Dataverse**



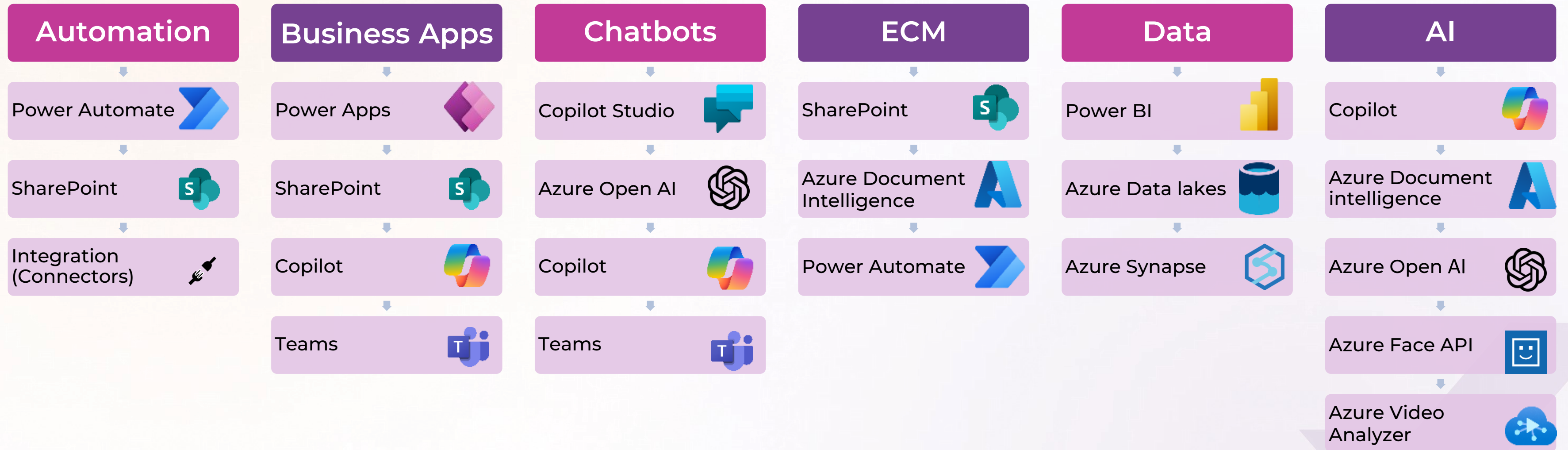
Power Fx

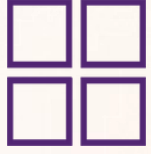


**Managed
Environments**



SOLUTION COMPONENTS





AI CAPABILITIES

Document Processing

Document Intelligence invoice model

Automated invoice processing is the process of extracting key accounts payable fields from billing account documents. Extracted data includes line items from invoices integrated with your accounts payable (AP) workflows for reviews and payments. Historically, the accounts payable process is performed manually and, hence, very time consuming. Accurate extraction of key data from invoices is typically the first and one of the most critical steps in the invoice automation process

Analyze

INVOICE

CONTOSO LTD

123 456th St
New York, NY, 10001

Microsoft Corp
123 Other St,
Redmond WA, 98052

BILL TO:
Microsoft Finance
123 Bill St,
Redmond WA, 98052

SHIP TO:
Microsoft Delivery
123 Ship St,
Redmond WA, 98052

SERVICE ADDRESS:
Microsoft Finance
123 Service St,
Redmond WA, 98052

INVOICE: 123456789
INVOICE DATE: 2019-11-15
DUE DATE: 2019-12-15
CUSTOMER NAME: MICROSOFT CORPORATION
SERVICE PERIOD: 2019-10-01 - 2019-11-30
CUSTOMER ID: 123456789

SALESPERSON	P.O. NUMBER	REQUISITIONER	SHIPPED VIA	F.O.B. POINT	TERMS
	123456789				

DATE	ITEM CODE	DESCRIPTION	QTY	UM	PRICE	TAX	AMOUNT
2019-11-15	123456789	Consulting Services	1	HR	10000	0.00	10000
2019-11-15	123456789	Consulting Services	1	HR	10000	0.00	10000
2019-11-15	123456789	Consulting Services	1	HR	10000	0.00	10000

SUBTOTAL

SALES TAX

TOTAL

PREVIOUS UNPAID BALANCE

AMOUNT DUE

10000

10000

10000

0.00

10000

THANK YOU FOR YOUR BUSINESS!

REMIT TO:
Contoso Billing
123 Remit St
New York, NY, 10001

Values

Result

Code

AmountDue #1

610

97.30%

BillingAddress #1

123 Bill St, Redmond WA, 98052

94.70%

BillingAddressRecipient #1

Microsoft Finance

95.70%

CustomerAddress #1

123 Other St, Redmond WA, 98052

94.70%

CustomerAddressRecipient #1

Microsoft Corp

95.60%

CustomerId #1

CID-12345

96.40%

CustomerName #1

MICROSOFT CORPORATION

94.90%

DueDate #1

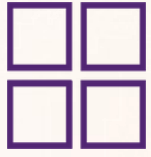
2019-12-15

97.30%

InvoiceDate #1

2019-11-15

97.20%



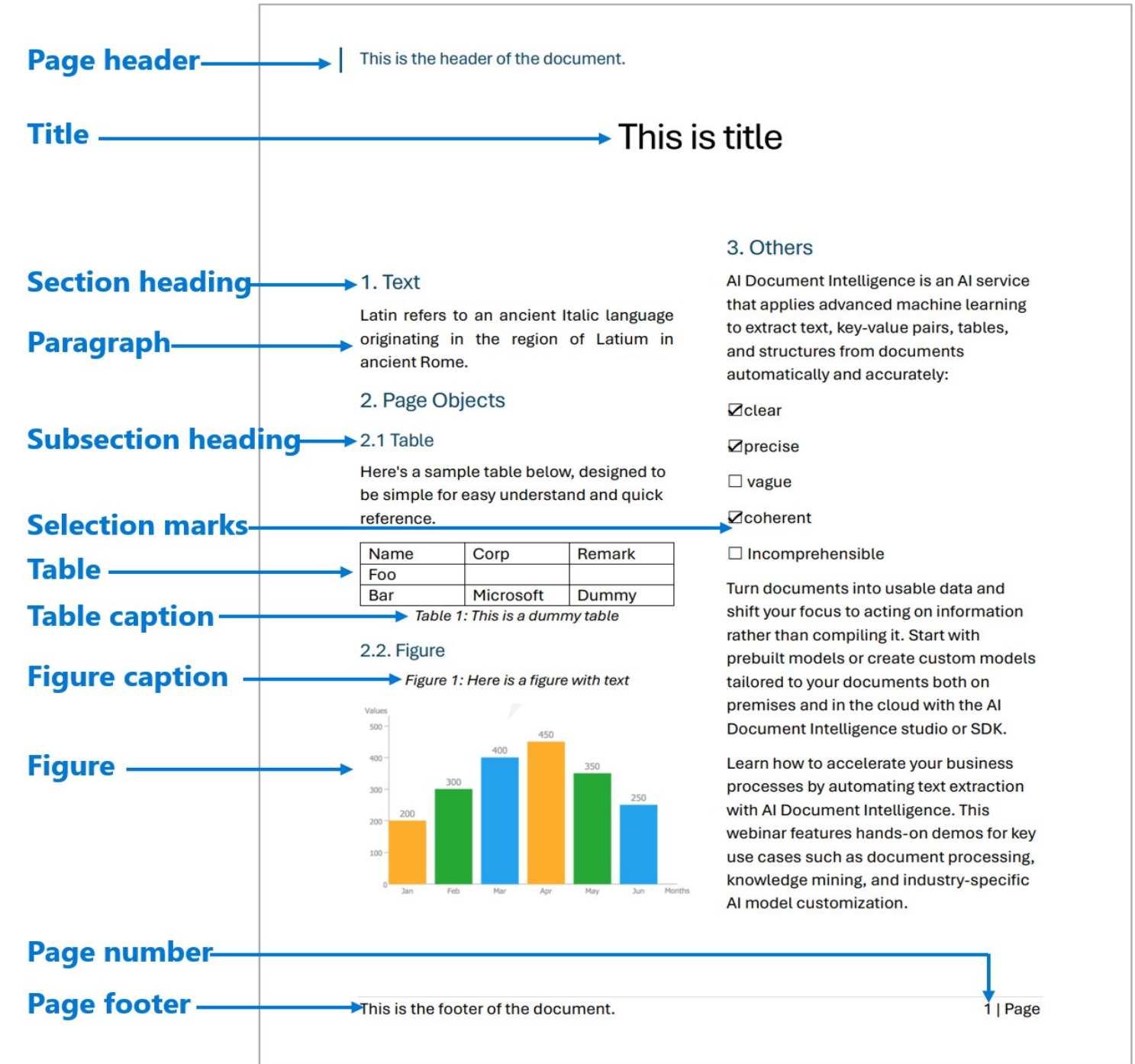
AI CAPABILITIES

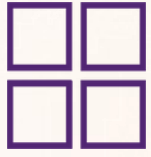
Document Processing

Document layout analysis

Document structure layout analysis is the process of analyzing a document to extract regions of interest and their inter-relationships. The goal is to extract text and structural elements from the page to build better semantic understanding models. There are two types of roles in a document layout:

- Geometric roles:** Text, tables, figures, and selection marks are examples of geometric roles.
- Logical roles:** Titles, headings, and footers are examples of logical roles of texts.





AI CAPABILITIES

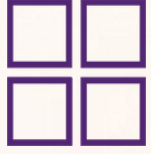
Document Processing

Receipt data extraction

Receipt digitization encompasses the transformation of various types of receipts, including scanned, photographed, and printed copies, into a digital format for streamlined downstream processing. Examples include expense management, consumer behavior analysis, tax automation, etc. Using Document Intelligence with OCR (Optical Character Recognition) technology can extract and interpret data from these diverse receipt formats. Document Intelligence processing simplifies the conversion process but also significantly reduces the time and effort required, thus facilitating efficient data management, and retrieval

Analyze

Values	Result	Code
Items (2) #1		
1 Name	98.40%	
Surface Pro 6		
Quantity	96.90%	
1		
TotalPrice	98.50%	
999		
2 Name	96.90%	
SurfacePen		
Quantity	97.00%	
1		
TotalPrice	98.50%	
99.99		
Locale	98.70%	
en-US		
MerchantAddress #1	94.50%	
123 Main Street Redmond, WA 98052		
MerchantName #1	95.00%	
Contoso		
MerchantPhoneNumber #1	99.00%	
+19876543210		

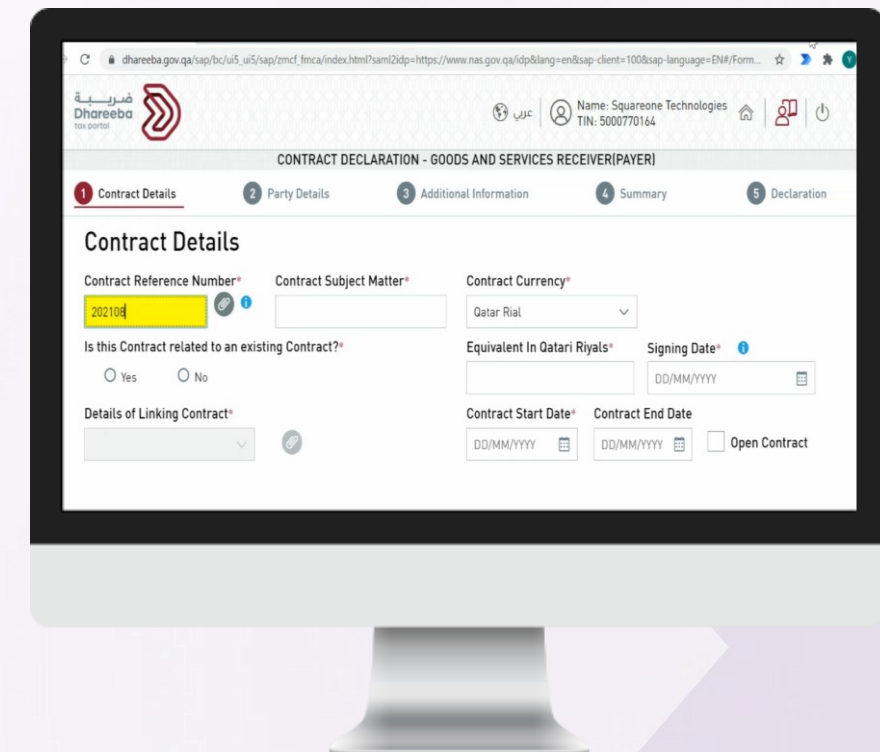
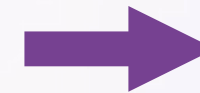
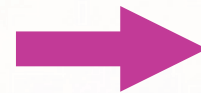


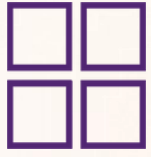
AI CAPABILITIES

Document Processing

Automated contract processing

Automated contract processing is the process of extracting key contract fields from documents. Historically, the contract analysis process is achieved manually and, hence, very time consuming. Accurate extraction of key data from contracts is typically the first and one of the most critical steps in the contract automation process.





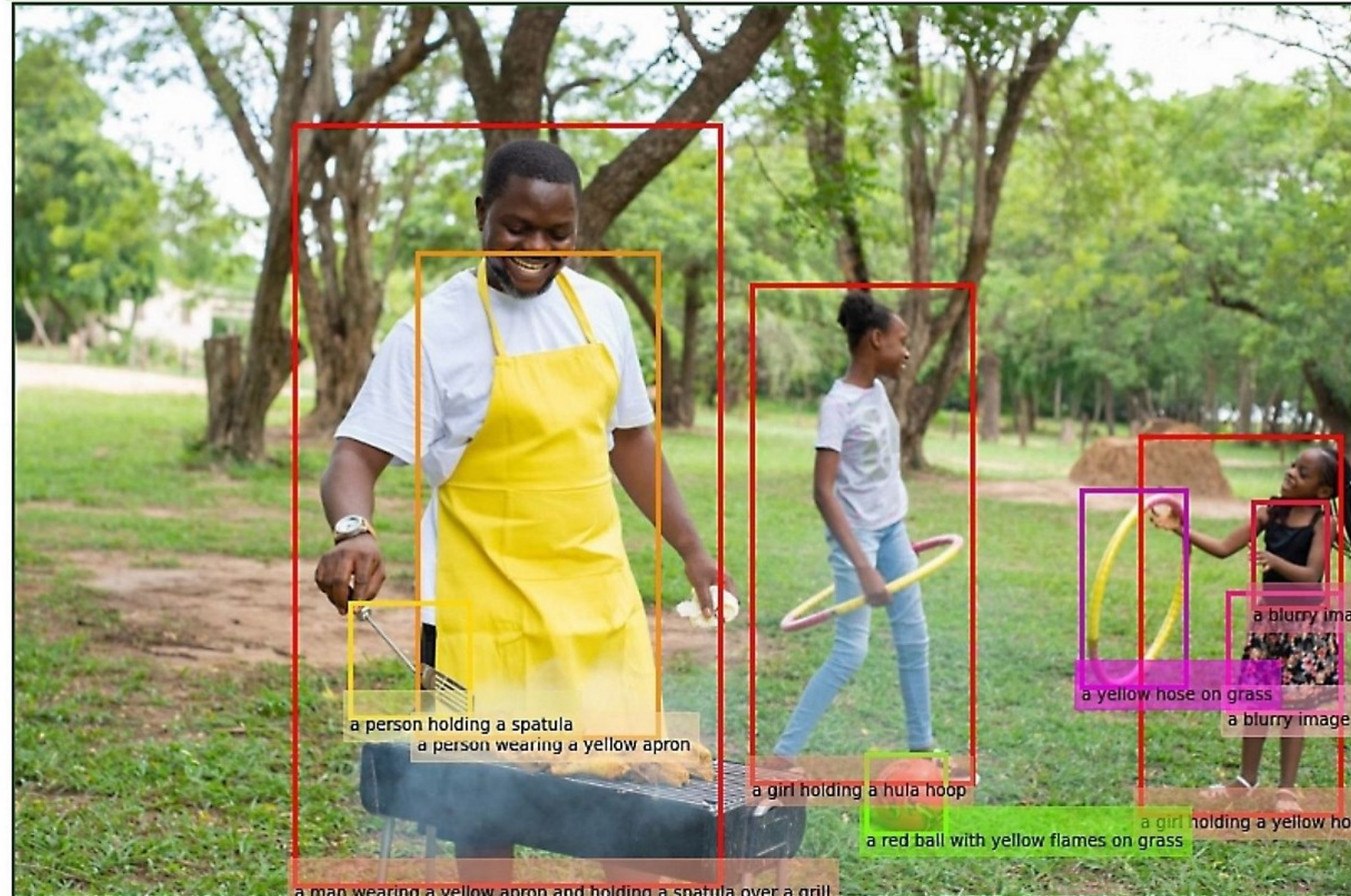
AI CAPABILITIES

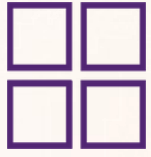
Ai Vision

Image Analysis

Azure AI Vision is a unified service that offers innovative computer vision capabilities. Give your apps the ability to analyze images, read text, and detect faces with prebuilt image tagging, text extraction with optical character recognition (OCR), and responsible facial recognition. Incorporate vision features into your projects with no machine learning experience required.

a man in a yellow apron cooking meat on a grill with a woman in the background





AI CAPABILITIES

Ai Vision

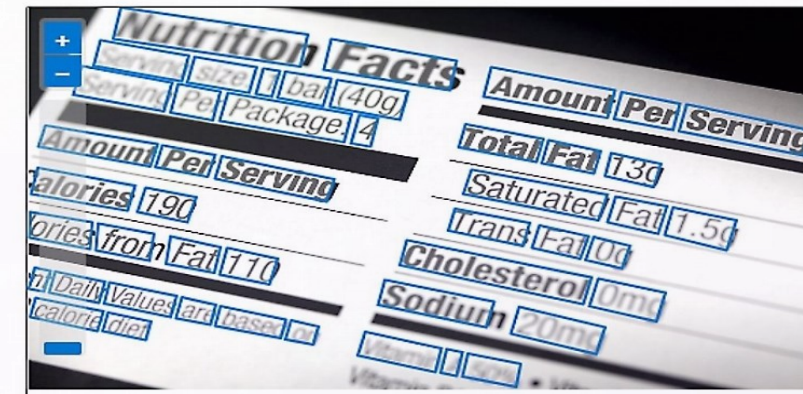
Optical Character recognition (OCR)

Optical character recognition (OCR) to extract printed and handwritten text from images with varied languages and writing styles.

Extract printed and handwritten text from images with mixed languages and writing styles using OCR technology.



Sample form #3



Detected attributes JSON

```
{
  "Nutrition Facts": {
    "Amount Per Serving": {
      "Serving size": "1 bar (40g)",
      "Serving Per Package": 4,
      "Total Fat": "13g",
      "Saturated Fat": "1.5g",
      "Trans Fat": "0g",
      "Calories": 190,
      "Calories from Fat": 110,
      "Total Daily Values are based on": "calorie diet."
    }
  }
}
```

Search for a word

Search

Analyze

Result:

١٨

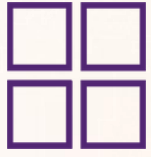
الثقافة والسياسة: أمورها والعرب

سميح حمودة- محاضر في دائرة العلوم السياسية بجامعة بيرزيت

يتحدد اتجاه السياسة الداخلية والخارجية لأية دولة بناءً على ثقافتها السائدة ونظامها الفلسفي وتجربتها التاريخية.

ويرى علماء الإنسان (الأنثروبولوجيا) أن الثقافة كل متكامل، وأنها تشير إلى طريقة حياة مجتمع معين، بكل ما يشمله الحياة

من نشاطات وأفكار ومنظم ومقائيس ومجامل على

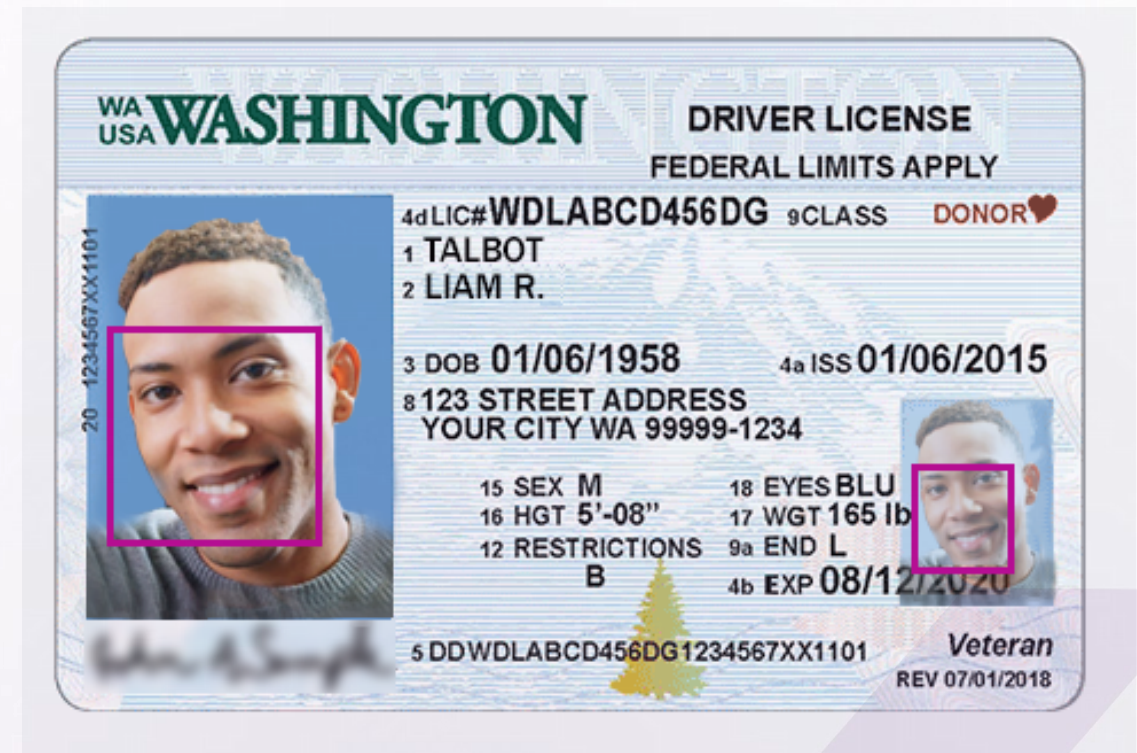
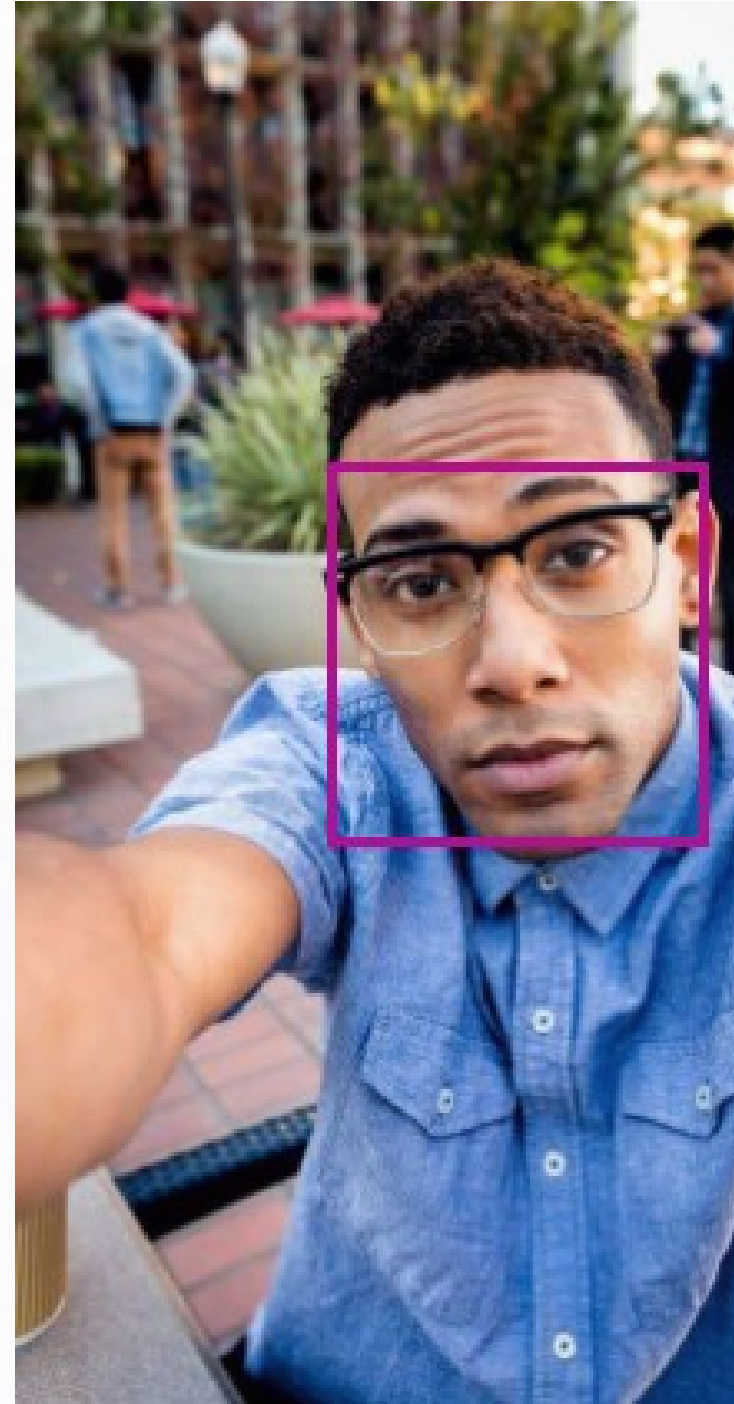


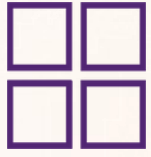
AI CAPABILITIES

Ai Vision

Face Verification and Recognition

Detect, identify, and analyze faces in images and videos. Build on this technology to support various scenarios—for example, introduce new users by verifying their identity, authenticate users for access control, or redact faces from images.



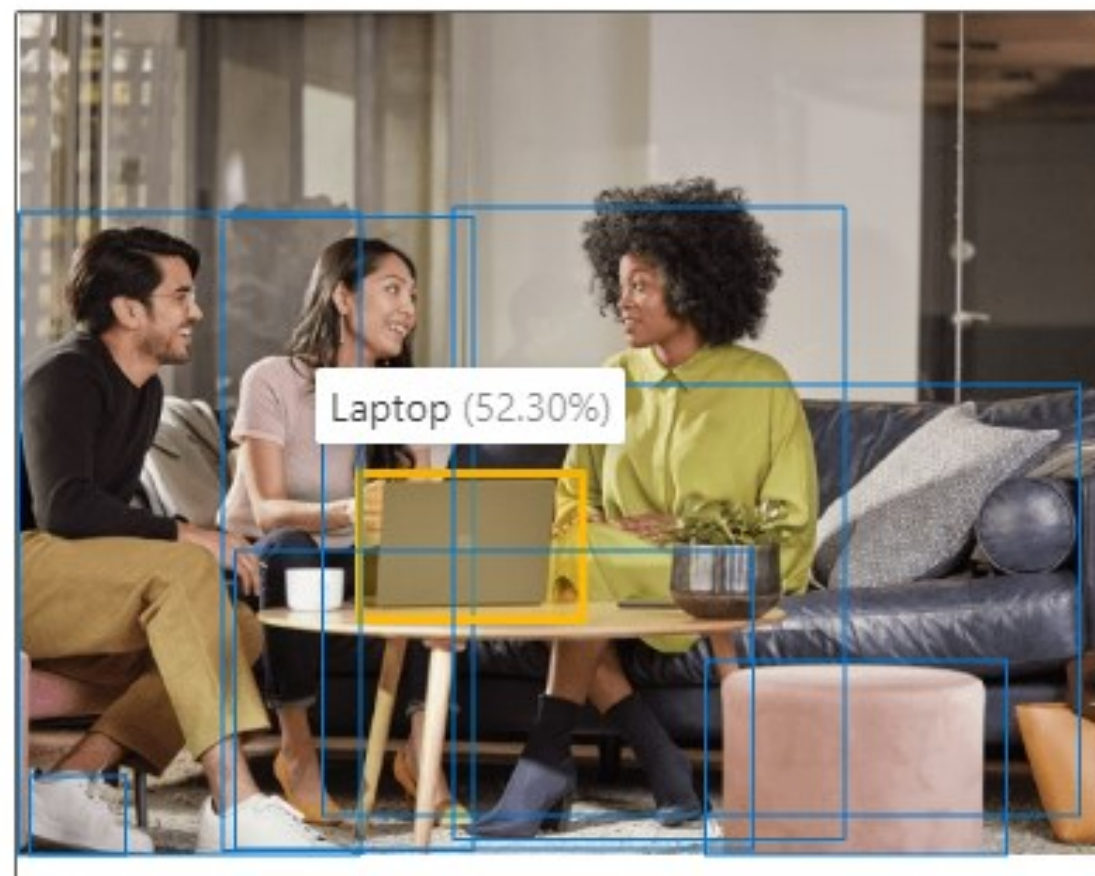


AI CAPABILITIES

Ai Vision

Detect Objects

Object detection is similar to tagging, but the API returns the bounding box coordinates for each tag applied. For example, if an image contains a dog, cat and person, the Detect operation lists those objects together with their coordinates in the image. You can use this functionality to process further relationships between the objects in an image. It also lets you know when there are multiple instances of the same tag in an image



footwear (52.50%)

person (76.50%)

Laptop (52.30%)

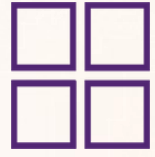
seating (53.30%)

person (85.60%)

person (72.30%)

seating (67.80%)

table (61.30%)

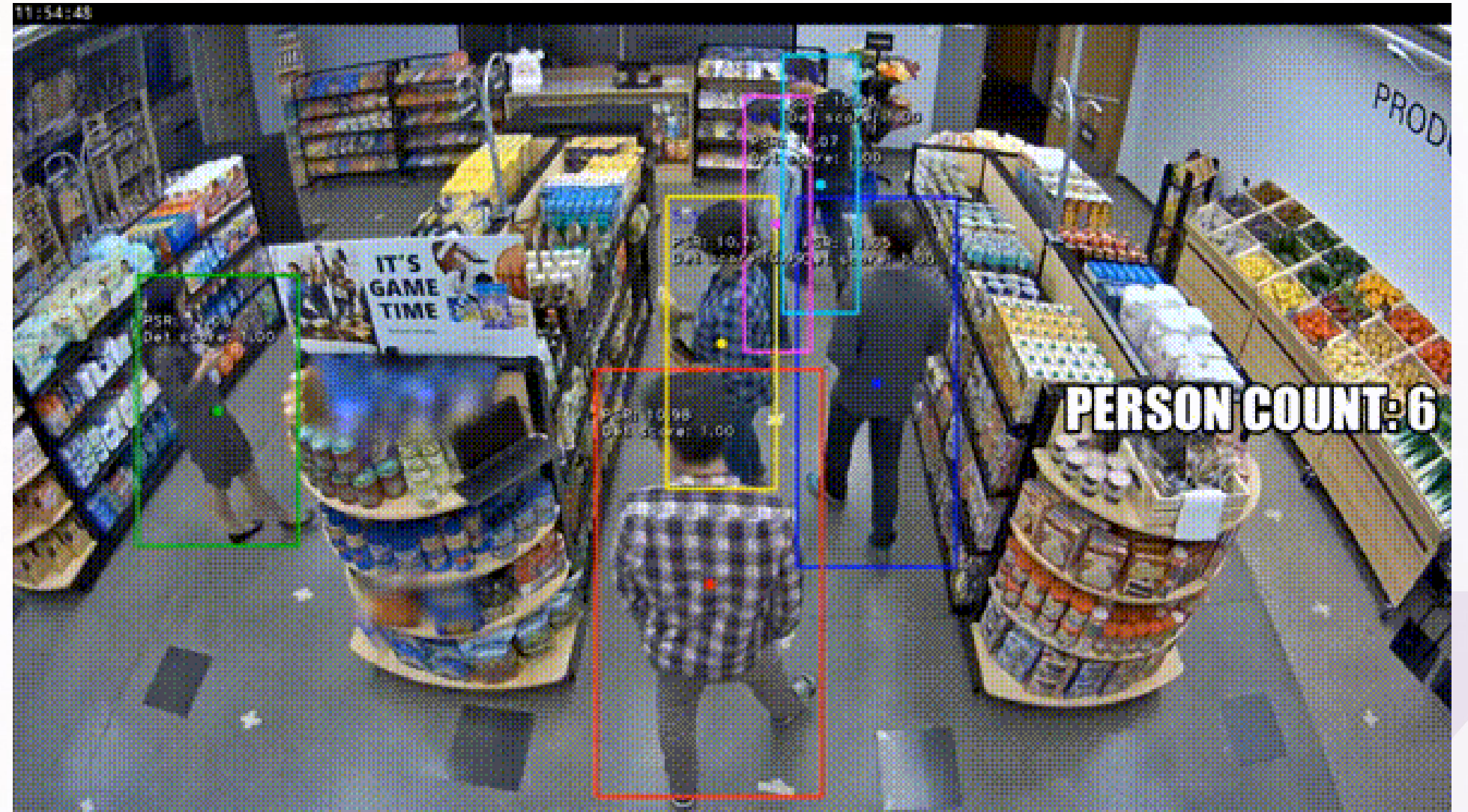


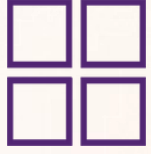
AI CAPABILITIES

Ai Vision

Video Analysis

You can use Azure AI Vision Spatial Analysis to detect the presence and movements of people in video. Ingest video streams from cameras, extract insights, and generate events to be used by other systems. The service can do things like count the number of people entering a space or measure compliance with face mask and social distancing guidelines





USE CASES

BANK ACCOUNT OPENING

AI Document intelligence
automatically extracting
handwritten client onboarding form

Dispatch Document Automation

Azure document intelligence
custom model trained to
automatically process thousands of
documents on daily bases.

Contract Declaration automation

Automatic contract analysis and
extraction, automating contract
declaration process with Tax portal.

Intelligent Gate Pass automation

Identity documents (IDs, Passports,
Driving license) extraction saving
time and human errors.

Sales Compliance validation

Automating prepaid customer
application forms compliance, validating
over 7 different criteria like matching
name with ID document and validity.

Customer Auto-response using GenAI

Automatic classification and
response for customers queries
using Open AI services.

Multidivisional Helpdesk classification and extraction

Unified interface power by AI to
automatically classify and rout
helpdesk request to respective
departments

Knowledge Mining – Digital Assets AI Powered

An AI-based solution that enables
intelligent search and extraction of
information from various sources,
such as documents, images and
videos.

AI Based Payment Follow-up automation

AI model is used to understand the
email content and extract important
invoice details

Customer validation and verification Face recognition

validate customer face matching
with the ID pic, extract and validate
the details in the ID card

911 emergency voice transcription and assistance

AI Powered real-time voice
transcription supporting different
languages providing real time
advises for operator.

AI Powered Chatbots (Copilot Studio)

Copilot Studio conversational and
transactional chatbots
automatically understand customer
and employees queries and
generate response.



THANK YOU

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