

Intro to AI with Azure and Office 365

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By Jason Rivera



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An aerial photograph of New York City at dusk or dawn. The Chrysler Building, with its iconic Art Deco spire, is the central focus on the right side of the frame. The city's dense grid of buildings stretches out to the left and back, with the Hudson River visible in the distance. The sky is a mix of soft pinks, oranges, and blues. A small red horizontal bar is located in the top left corner of the image.

About me

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Community

- **Organizer of the Tri-State Office 365 User Group**
🌐 <https://www.meetup.com/TSSPUG/>
🐦 @TriStateO365
- **Organizer of M365 Philly Virtual (Formerly SharePoint Saturday Philly)**
🌐 <https://www.spsevents.org/event/philly2020/>
🐦 @SPS_Philly
- **Blog:** <https://SharePointLessons.wordpress.com>

What We'll Cover



Overview of Azure Cognitive Services

Text Analytics
Computer Vision
Language
Understanding



Power Virtual Agents and AI Builder

Review & Next Steps

Azure Cognitive Services

A comprehensive family of AI services and cognitive APIs to help you build intelligent apps

Start free



Overview

Features

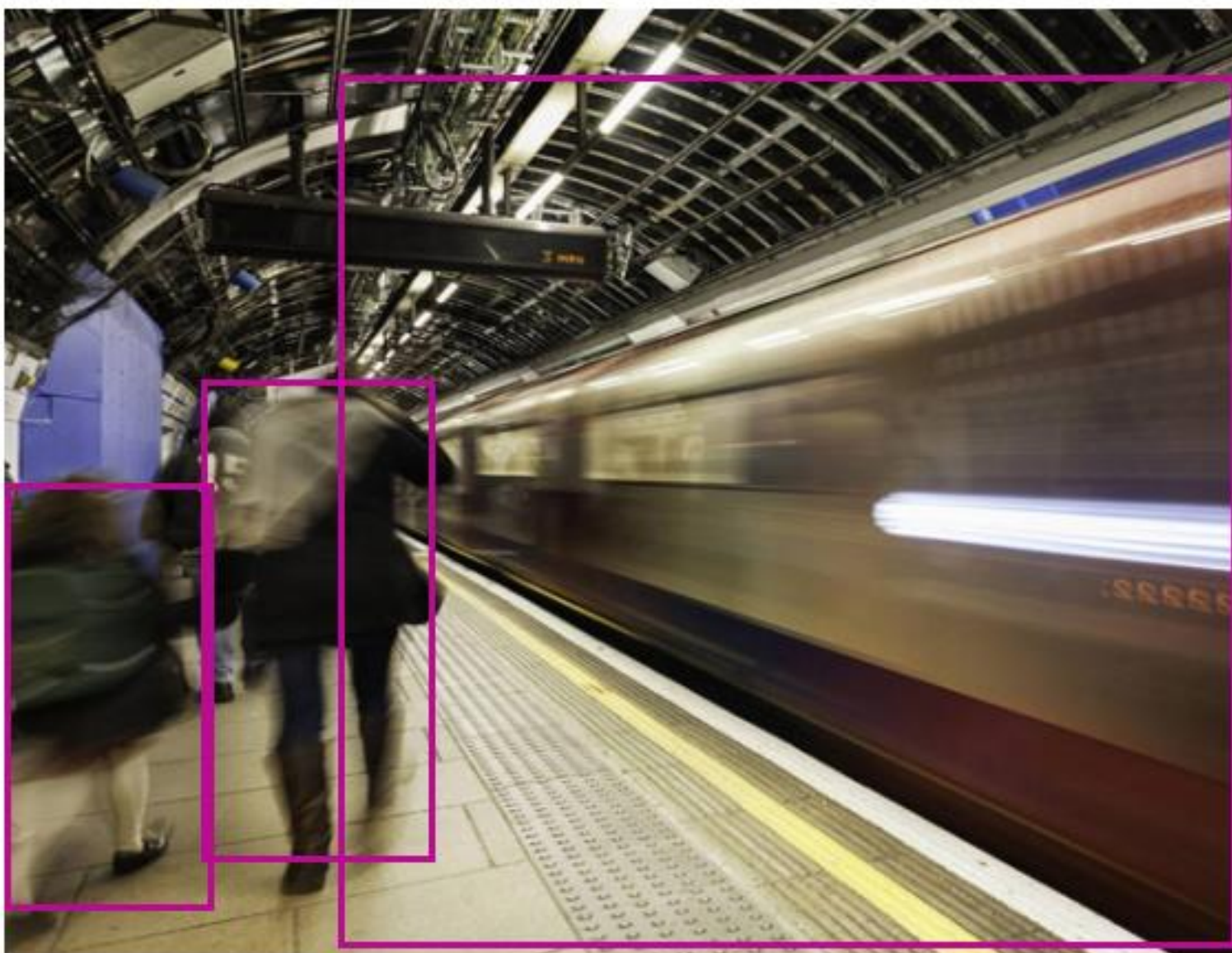
APIs

Customer stories

Documentation

FAQs

AZURE COGNITIVE SERVICES



FEATURE NAME:	VALUE
Objects	[{ "rectangle": { "x": 93, "y": 178, "w": 115, "h": 237 }, "object": "person", "confidence": 0.764 }, { "rectangle": { "x": 0, "y": 229, "w": 101, "h": 206 }, "object": "person", "confidence": 0.624 }, { "rectangle": { "x": 161, "y": 31, "w": 439, "h": 423 }, "object": "subway train", "parent": { "object": "train", "parent": { "object": "Land vehicle", "parent": { "object": "Vehicle", "confidence": 0.926 }, "confidence": 0.923 }, "confidence": 0.917 }, "confidence": 0.801 }]
Tags	[{ "name": "train", "confidence": 0.9975446 }, { "name": "platform", "confidence": 0.9955431 }, { "name": "station", "confidence": 0.979800761 }, { "name": "indoor", "confidence": 0.9277198 }, { "name": "subway", "confidence": 0.8389395 }, { "name": "clothing", "confidence": 0.5043765 }, { "name": "pulling", "confidence": 0.4317162 }]

Text Analytics – Sentiment Analysis

The screenshot displays the Microsoft Word interface with the 'Positivity Score' add-in active. A context menu is open over the text 'sentence is', listing various actions such as 'Save draft', 'Insert signature', and 'Show From'. The 'Positivity Score' option is highlighted in the menu. On the right side of the screen, a sidebar titled 'Positivity Score' shows the 'E-mail Positivity Score' as a green donut chart with '99%' in the center. The status bar at the bottom right indicates 'Draft saved at 11:17 PM'.

Positivity Score

E-mail Positivity Score

99%

Save draft

Insert signature

Show From

Set importance >

Switch to plain text

Check for accessibility issues

Set Permissions >

Show message options...

Positivity Score

Poll

Insights

My Templates

Get Add-ins

Draft saved at 11:17 PM

Computer Vision



ross.jpg



A few seconds ago

Jason Rivera

Bob Ross standing in front of a mountain

["person","man","outdoor","front","standing","holding","wearing","posing","photo","looking","camera","smiling","mountain","shirt","large","old","table","field","river","eating","water"]

Power Virtual Agents / Chat Bots

The screenshot displays the Power Virtual Agents interface, which is used for creating and managing chatbots. The interface is divided into two main sections: a chat window on the left and a configuration panel on the right.

Chat Window (Left):


- Header:** "Help Desk" with a close button (X) and a "Reset" button.
- Chat Area:** Shows a conversation with a user (represented by a blue person icon) and the chatbot (represented by a purple robot icon). The user's message is "I need help desk ticket" (sent "Just now"). The chatbot's response is "Hi, I'm the Help Desk Bot. I'm going to walk you through your ticket request." Below this, a prompt "Please provide a Title for your ticket" is visible.
- Input Area:** Includes a search icon, a plus icon, a minus icon, a refresh icon, and a text input field with a placeholder "{x}" and a send button (arrow).

Configuration Panel (Right):


- Header:** "Help Desk" with a "Discard changes" button and a "Topic details" link.
- Trigger Phrases (3):** A list of phrases that trigger the chatbot's response: "I need to create a service ticket", "I need help", and "I'd like to submit a ticket".
- Message:** The chatbot's response text: "Hi, I'm the Help Desk Bot. I'm going to walk you through your ticket request."
- Question:** A section for asking questions, with a prompt "Please provide a Title for your ticket".
- Identify:** A section for identifying the user, with a prompt "User's entire response".
- Save response as:** A section for saving the response.

AI Builder – Form Processor


Refine a model for your business needs




Category Classification
Categorize text by its meaning so it's easier to analyze.




Entity Extraction
Recognize specific information about your business from data.



Form Processing
Read and save information from standard documents.



Object Detection
Recognize and count things in images.



Prediction
Predict whether something will happen.

Quick test

↑ ↓ 1 of 1 | 🔍 🔍 🖨

Company Name
Company slogan

Street Address
City, ST ZIP Code
Phone Enter phone | Fax Enter fax
Email | Website

TO
Barman, Myster
1234567890
1234567890
1234567890
1234567890
1234567890
1234567890

FROM Form Processing Services
P.O. Box 1234

Description	Amount
AI Builder Form Processing Solutions	24,000
Total	24,000

Make all checks payable to Company Name
Payment is due within 30 days.
If you have any questions concerning this invoice, contact Name | Phone | Email

THANK YOU FOR YOUR BUSINESS!

Start over

Close

Get straight to productivity



Business Card Reader

Automatically process business card information



Category Classification (preview)

Categorize text by its meaning so it's easier to analyze



Entity Extraction

Extract entities and their relationships from text



Key Phrase Extraction

Extract the key talking points from text



Language Detection

Identify the language being used in text



Receipt Processing (preview)

Read and save information from receipts



Sentiment Analysis

Analyze positive/negative sentiment in text



Text Recognition

Automatically process text from images



Text Translation (preview)

Translate text into a new language automatically

For More Information

- Azure Cognitive Services
 - <https://azure.microsoft.com/en-us/services/cognitive-services/#overview>
- Microsoft Bot Framework
 - <https://dev.botframework.com/>
- Power Virtual Agents
 - <https://powervirtualagents.microsoft.com/>
- AI Builder
 - <https://powerapps.microsoft.com/ai-builder/>

Demos

- Outlook Add-In with Sentiment Analysis
 - <https://sharepointlessons.wordpress.com/2018/05/21/creating-an-outlook-add-in-with-sentiment-analysis/>
- Tagging and Captioning Images
 - <https://sharepointlessons.wordpress.com/2018/11/12/automatically-tag-and-caption-images-in-sharepoint/>
- Bonus: Sentiment Analysis on a Tweet
 - <https://sharepointlessons.wordpress.com/2018/06/26/integrating-twitter-sharepoint-and-azure-sentiment-analysis-with-flow/>

Questions?

Microsoft 365 and Power
Platform India User Group

