



Pablo Piovano

Primeros pasos con Azure AI y Power Apps

Sábado 23 de Abril - 15hs UTC

PABLO PIOVANO

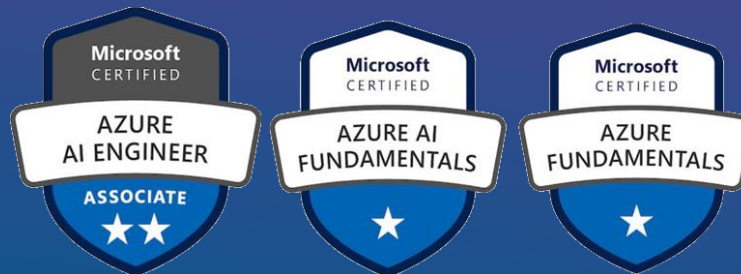
- Ingeniero en Computación, con más de 12 años de experiencia en el sector TI.
- Enfocado en desarrollar e implementar soluciones con tecnologías Microsoft.
- Colaborando en la transformación digital de las compañías.
- Organizador en la comunidad Microsoft Azure AI Latam South. **1956-AI**
- Microsoft MVP AI



@ppiova








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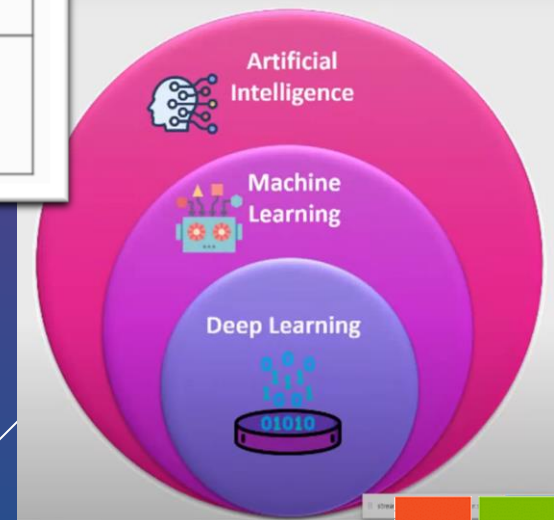


Agenda

- Cargas de trabajo comunes de la AI.
- Microsoft Cognitive Services.
- Power Platform
 - Power Apps - Power Automate - Power Virtual Agents.
- AI Builder.
- Demos.
- Recursos.

Cargas de trabajo comunes de la IA

	Aprendizaje automático	Modelos predictivos basados en datos y estadísticas: la base de la IA
	Detección de anomalías	Sistemas que detectan patrones o eventos inusuales, lo que permite una acción preventiva
	Computer Vision	Aplicaciones que interpretan la entrada visual de cámaras, imágenes o vídeos.
	Procesamiento del lenguaje natural	Aplicaciones que pueden interpretar el lenguaje escrito o hablado
	IA conversacional	Agentes de IA (o <i>bots</i>) que pueden entablar diálogos con usuarios humanos



Azure Cognitive Services

► Servicios de IA preempaquetados que se pueden integrar en soluciones

Lenguaje	Voz	Visión	Decisión
<ul style="list-style-type: none">• Text Analytics• Translator• Language Understanding• QnA Maker	<ul style="list-style-type: none">• Speech to Text• Text to Speech• Speech Translation• Speaker Recognition	<ul style="list-style-type: none">• Computer Vision• Custom Vision• Face	<ul style="list-style-type: none">• Anomaly Detector• Content Moderator• Personalizer

Azure Applied AI Services

- Form Recognizer
- Metrics Advisor
- Video Analyzer for Media
- Immersive Reader
- Bot Service
- Cognitive Search

Microsoft Power Platform

No code, low code, and code first



Power BI

Business analytics



Power Apps

Application development



Power Automate

Workflow automation



Power Virtual Agents

Intelligent virtual agents



**Data
connectors**



AI Builder



Dataverse



Microsoft Power Apps

Blank app

Create

- Blank canvas app**
Start with a blank screen, and design your app visually by adding components to it. When you're ready, connect it to data. [Learn more](#)
Canvas app
- Blank app based on Dataverse**
Build an app on top of data that's already stored in Dataverse — the smart, secure, and scalable low-code data platform. [Learn more](#)
Model-driven app
- Blank website**
Create a no-code website for internal or external audiences. Customize it to get the features and the look you want. [Learn more](#)
Portal
Create

Start building model-driven apps

Exclusive to the Common Data Service, model-driven apps are generated from your data based on the relationships, rules, and processes you set. [Learn more](#)

Recent apps

- Supplier Sourcing
- Up Sale

Create apps like these

Power Apps | Innovation Challenge | Innovation > Dashboards

Save As | New | Set As Default | Refresh All

Innovation Challenge

Active Challenges | Expand Chart

Active Challenges by Domain

- Industry IoT
- IT/OT convergence
- New

Most popular Challenges

Name	Sum (Number of Ideas)
Connected Ope...	5
Enterprise sust...	4
Connected pro...	3
Big data	2
3D Printing	2

Active Ideas | Expand Chart

Top 5 Ideas

Idea	Number of Votes
1	10
2	8
3	7
4	7
5	6

Active Challenges

- Connected Operations
3/12/2018
- Enterprise sustainability
4/16/2018

Active Ideas

- Connected quality control
Connected Operations
10
- Fleet automation
Connected Operations
8

Microsoft Power Automate

GenerateThumbnail

When a blob is added or modified (properties only) (V2)

* Storage account name: Use connection settings (storagepiovademos)

* Container: /imagesdemos

Show advanced options

Generate Thumbnail

* Thumbnail Width: 50

* Thumbnail Height: 50

* Image Source: Image URL

Image URL: https://storagepiovademos.blob.core.windows.net/imagesdemos/Name

Show advanced options

Create blob (V2)

* Storage account name: Use connection settings (storagepiovademos)

* Folder path: /thumbnails

* Blob name: DisplayName

* Blob content: Body

Show advanced options

+ New step Save

PowerApps

Condition

Compose

* Inputs: dataUriToBinary

HTTP

* Method: POST

* URI: https://xamarinfaceapi.cognitiveservices.azure.com/face/v1.0/detect

Headers

Ocp-Apim-Subscription-Key	40817fb162dc47b18295c7466f2dfc97
Content-Type	application/octet-stream
Enter key	Enter value

Queries

returnFaceAttributes	age,gender,emotion,smile,hair,makeup,accessories,occlusion,exposure,noise
Enter key	Enter value

Body: Outputs

Cookie: Enter HTTP cookie

Show advanced options

Response

* Status Code: 200

Headers

Enter key	Enter value
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Body: Body

Show advanced options

+ New step Save

Microsoft Power Virtual Agents

The screenshot displays the Microsoft Power Virtual Agents interface. On the left, a sidebar contains navigation options: Home, Topics, Entities, Analytics, Publish, and Manage. The main area is titled 'Test bot' and shows a chat conversation. The chat history includes messages from a user and a bot named 'Kirkland'. The current message from the user is 'Did that answer your question?'. Below the chat, there are 'Yes' and 'No' buttons. To the right of the chat, a flowchart is visible, showing a decision point based on the 'PRR Survey Question (Boolean)'. If the answer is 'True', it leads to a 'Redirect' action labeled 'Confirmed Success'. If the answer is 'False', it leads to a 'Redirect' action labeled 'Confirmed Failure'.

The screenshot displays the Microsoft Power Virtual Agents interface, specifically the 'Channels' section. The sidebar on the left shows navigation options: Home, Topics, Entities, Publish, Analytics, Manage, Authentication, Channels, Skills, and Team. The main area is titled 'Channels' and contains a grid of channel icons. The channels listed are: Demo website, Custom website, Mobile app, Facebook, Microsoft teams, Skype, Cortana, Slack, Telegram, Twitter, LINE, and Kik. Each channel icon has a brief description of how to integrate it with the bot.

AI Builder Capabilities



Documents

-Process forms and structure documents
Recognize text (OCR)

Process invoices and receipts

Process passports and US driver's licenses

Process business cards



Language

Categorize text

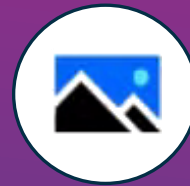
Extract entities

Extract key phrases

Detect language

Analyze sentiment

Translate



Images

Detect objects

Classify images



Structure Data

Predict quantity

Predict outcomes

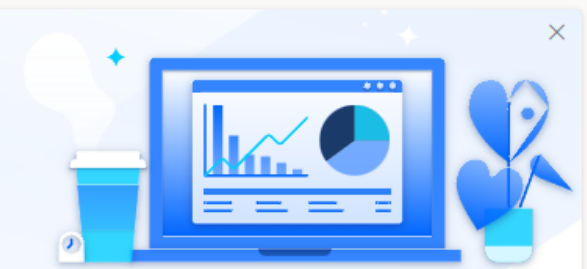


AI Builder

Add Intelligence to your business

Automate processes, find insights, and make applications more productive. Choose from prebuilt and customizable AI models, or leverage the models your company has already built.

▶ Watch a 90 second video



Try out AI capabilities for each data type

☆ All Documents T Text S Structured data I Images



📄 Invoice processing
Extract information from invoices



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



📄 Receipt processing
Extract information from receipts



📄 Identity document reader
Extract information from identity documents



📄 Business card reader
Extract information from business cards



Custom model

📄 Form processing
Extract custom information from documents



T Sentiment analysis
Detect positive, negative, or neutral sentiment in text data



Preview

T Category classification
Classify customer feedback into predefined categories



T Entity extraction
Extract key elements from text, and classifies them into predefined categories



T Key phrase extraction
Extract most relevant words and phrases from text



T Language detection
Detect the predominant language of a text document



Custom model

T Category classification
Classify texts into custom categories



Custom model

T Entity extraction
Extract custom entities from your text



Custom model

Prediction
Predict future outcomes from historical data



Custom model

Lobe

Image classification
Classify your images based on their content (powered by Lobe)



AI Builder is build on top of Azure AI

Business
Decision Makers

Citizen
Developers

Developers and
Data Scientists

