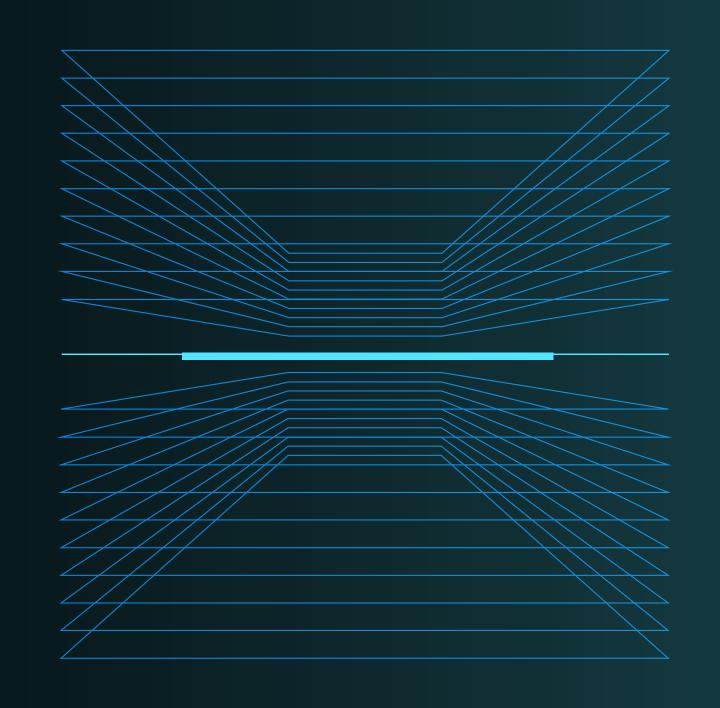
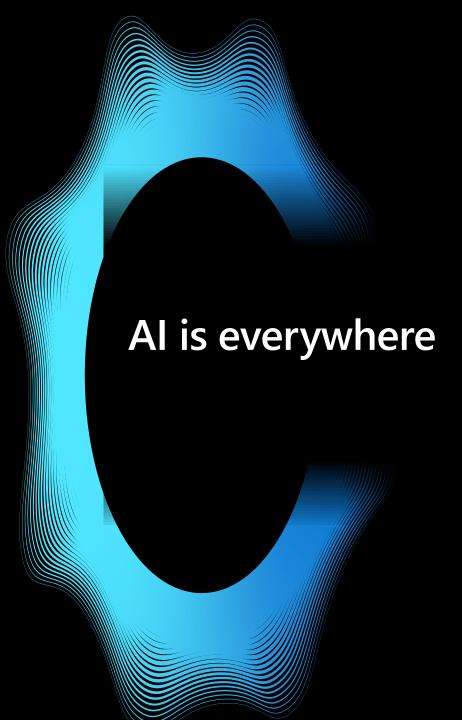


Stepping into the future. Azure OpenAl Service

Diego Diaz Data & Al Specialist







Al private investments have doubled in one year1



Research on AI fairness and transparency has increased fivefold since 2014



50% of organizations have adopted AI in at least one business area

^{1.} Artificial Intelligence Index Report 2022, Stanford University HAC 2022

^{2. &}lt;u>S Leadership IT Investment Survey 2022 (CSS Insights); McKinsey; EY March Report</u>

^{3.} The state of Al in 2022--and a half decade in review | McKinsey

Artificial Intelligence

Machine Learning

Deep Learning

Generative Al



Artificial Intelligence

the field of computer science that seeks to create intelligent machines that can replicate or exceed human intelligence



Machine Learning

subset of AI that enables machines to learn from existing data and improve upon that data to make decisions or predictions



2017

Deep Learning

a machine learning technique in which layers of neural networks are used to process data and make decisions



Generative Al

Create new written, visual, and auditory content given prompts or existing data.

How the tech behind ChatGPT could change the world—an

How the tech behind ChatGPT could change the world—an updated episode from our archive | The Economist

OpenAl's new DALL-E model draws anything — but bigger, better and faster than before

dall-e | TechCrunch

Microsoft Bets Big on the Creator of ChatGPT in Race to Dominate A.I.

Microsoft Bets Big on the Creator of ChatGPT in Race to Dominate A.I. - The New York Times (nytimes.com)

ChatGPT has given everyone a glimpse at Al's astounding progress

OpenAl's ChatGPT is a fascinating glimpse into the scary power of Al - Vox

GPT-3: We're at the very beginning of a new app ecosystem

<u>GPT-3: We're at the very beginning of a new app ecosystem | VentureBeat</u>

A.I. Can Now Write Its Own Computer Code. That's Good News for Humans.

A.I. Can Now Write Its Own Computer Code. That's Good News for Humans. - The New York Times (nytimes.com)

What is ChatGPT?

Human-like Responses

Contextual Awareness

Trained on large data

GPT-3 vs ChatGPT: Know the difference

GPT-3: Make smarter apps

ChatGPT: Get more productive



An <u>AI model</u> accessible through an <u>API</u> for on-demand intelligence



A <u>GPT-3</u> model used to build <u>Chatbots</u> you can interact with and ask to perform tasks

Can be used for:



Implementing semantic text understanding



Internal Information search & extraction



Building copilot-like applications



Can be used for a lot more including what ChatGPT can do



Ideation for content creation



General question answering



Assistance in code generation and conversation



Ensure that artificial general intelligence (AGI) benefits humanity.





Empower every person and organization on the planet to achieve more

GPT-3

Generate and Understand Text

Codex

Generate and Understand Code

DALL-E

Generate images from text prompts



Generative Al

GPT-3

Prompt:

Write a tagline for an ice cream shop.

Response:

We serve up smiles with every scoop!

Codex

Prompt:

Table customers, columns =
[CustomerId, FirstName,
LastName, Company, Address,
City, State, Country,
PostalCode]

Create a SQL query for all
customers in Texas named Jane
query =

Response:

SELECT *
FROM customers
WHERE State = 'TX' AND
FirstName = 'Jane'

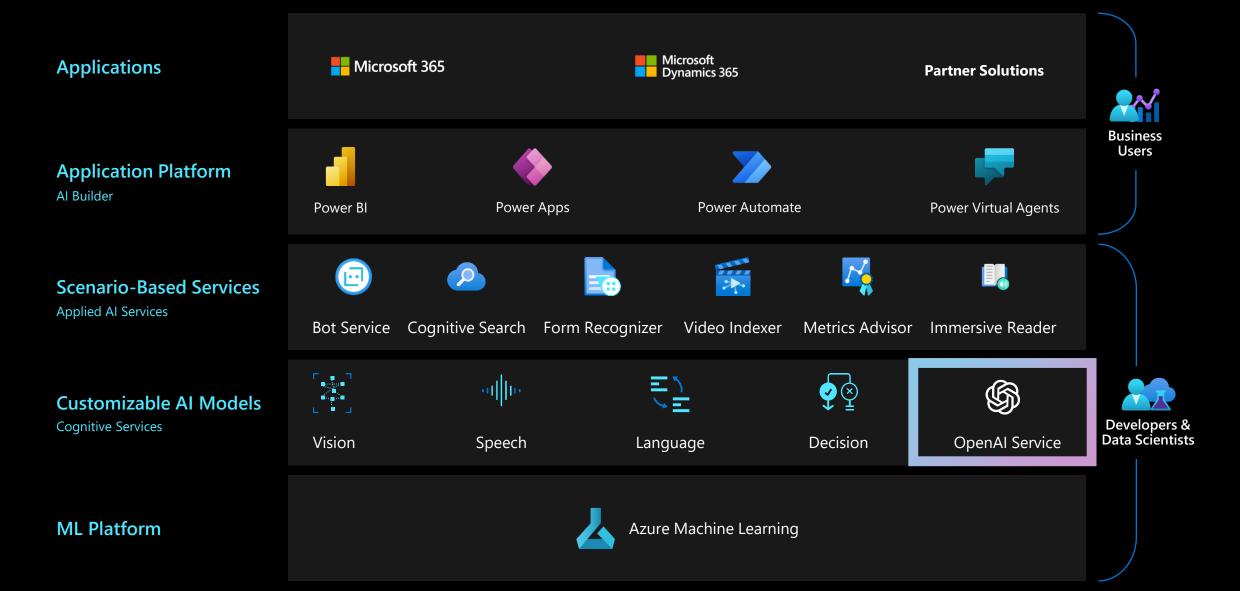
DALL·E

Prompt: A white Siamese cat

Response:



Azure Al



Azure OpenAl Service

GPT-3

Codex

DALL·E (preview)



Deployed within your Azure subscription, secured by you, accessed only by you, and tied to your datasets and applications



Large, pretrained AI models to unlock new scenarios



Custom AI models fine-tuned with your data and hyperparameters



Built-in responsible AI to detect and mitigate harmful use



Enterprise-grade security with role-based access control (RBAC) and private networks

Azure OpenAl | Capabilities

Creative Ideation

Subject Research

Essay outlines

Extracting insights

Semantic search

Summarizing text

Code generation

Limitless generation with a few lines of input

Virtual Assistants

Language Translation

Writing assistance

Classifying text

Answering questions

Poem creation

Comments from code

Code refactoring

Image Generation

Azure OpenAl | Top 4 Capabilities & Use Cases



Content Generation

Call Center Analytics:
Automatically generate
responses to customer inquiries

Generate personalised UI for your website



Summarization

Call Center Analytics: Summary of customer support conversation logs

Subject Matter Expert Document Summarization (e.g. financial reporting, analyst articles)

> Social Media Trends Summarization



Code generation

Convert Natural Language to SQL (or vice versa) for telemetry data

Convert Natural Language to Query Proprietary Data Models

Code Documentation



Semantic Search

Search reviews for a specific product / service

Information Discovery and Knowledge Mining

Examples of Multiple Model Use Cases

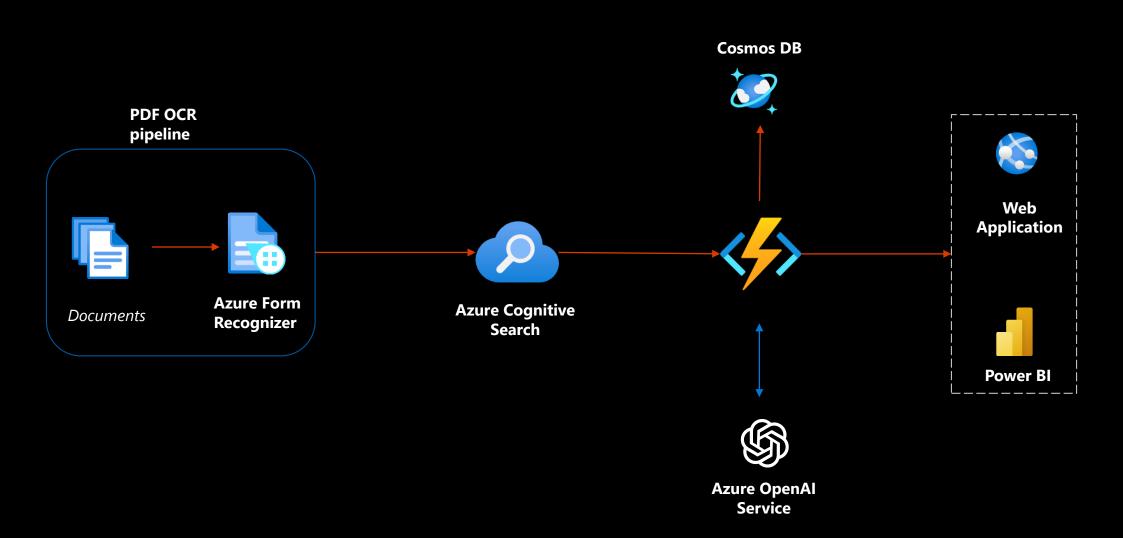
End to End Call Center Analytics: Classification, Sentiment, Entity Extraction, Summarization and Email Generation

Customer 360: Hyper-personalisation using timely Summarization of customer queries & trends, Search, and Content Generation

Business Process Automation: Search through structured & unstructured documentation, Generate Code to query data models, Content Generation

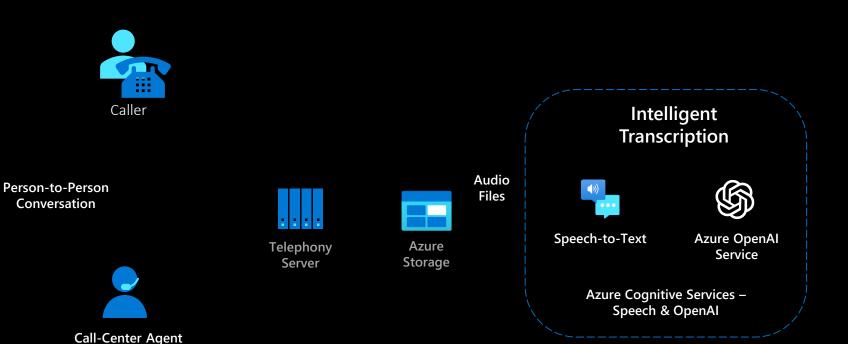
Document Process Automation

Extract rich insights from documents and summarizing them



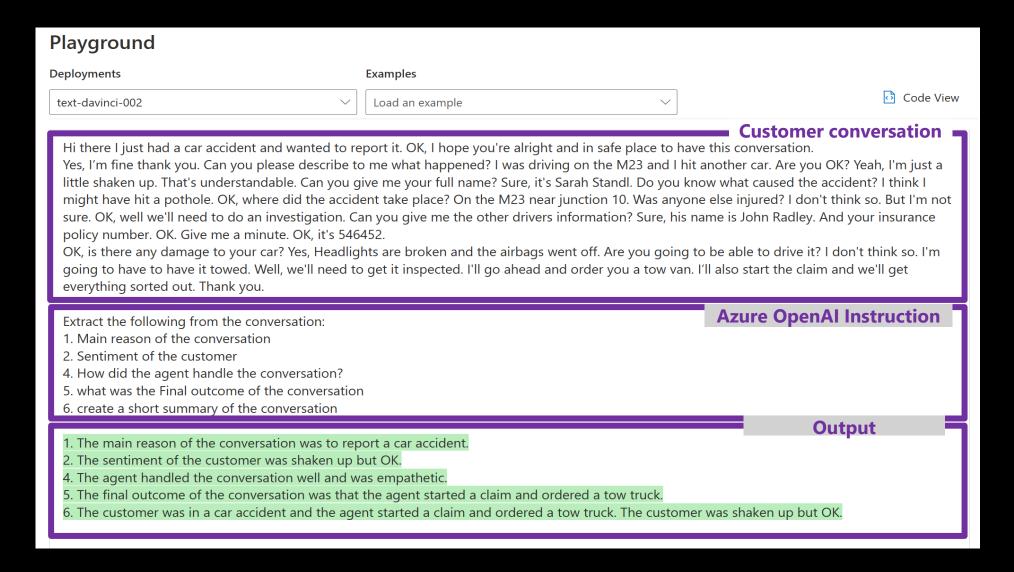
Contact Center Analytics using Speech API & OpenAI

Extract rich insights from call transcripts



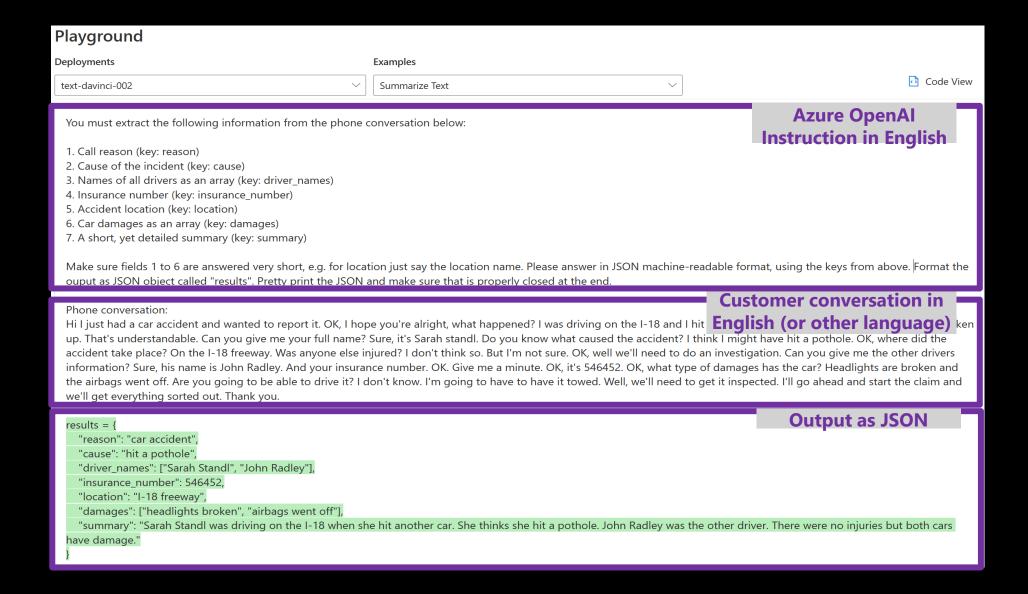


Azure OpenAI | Sample Use Cases



Example:
Extract
information
from text
and
summarize
it

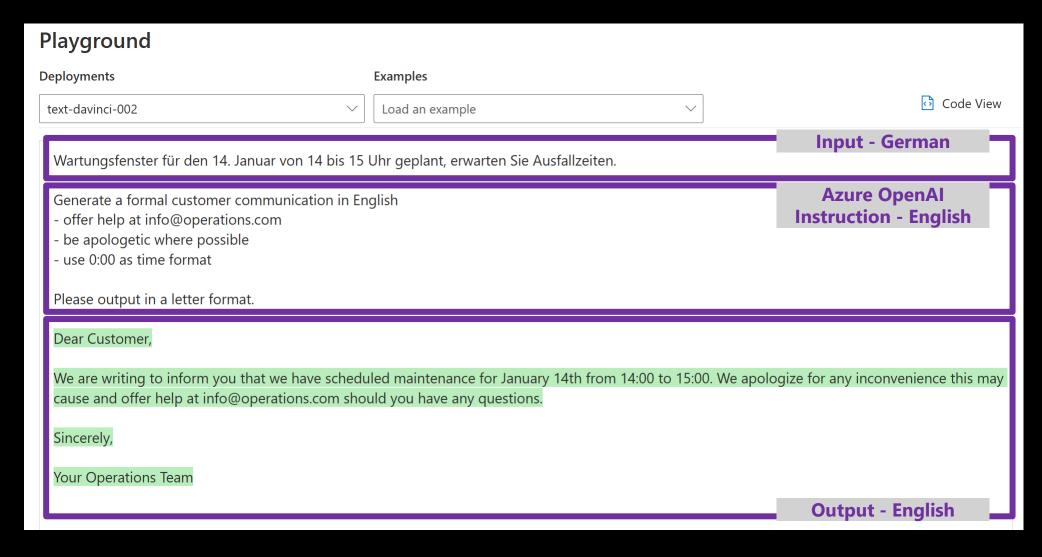
Azure OpenAI | Sample Use Cases



Call Center Automation

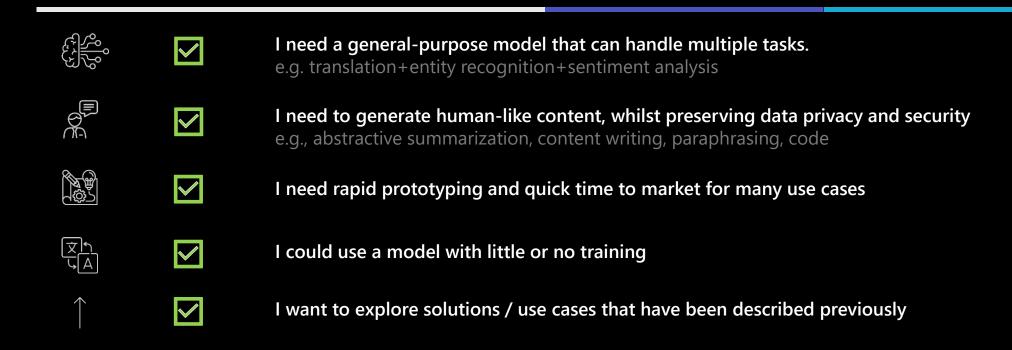
Example: OpenAl Prompt

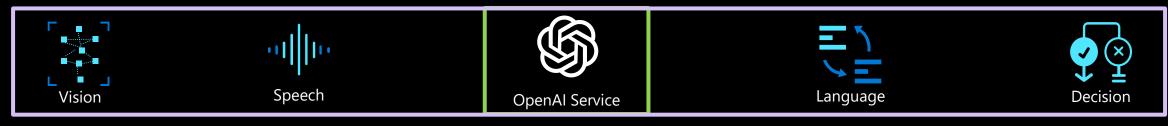
Azure OpenAI | Sample Use Cases



Example:
Generate
auto text in
any
language

Azure OpenAl | Considerations





Azure OpenAl | Benefits

Increased efficiency and productivity by getting more done in lesser time through rapid prototyping and quicker time to market*

Faster time to realize value

Enhanced customer experience with a greater focus on customer-centric services and products, whilst utilizing feedback and trends better

Easy to use:

Even junior data scientists or business users can use Azure OpenAl Service Playground

Ensure data privacy & security, and implement it in a responsible manner using a Trusted Cloud Provider

Does not require a long tedious annotation process*

Less training data is required for many relevant use cases*

Ability to perform text analytics and generation tasks that up until now were reserved only to humans

To learn more, please visit Azure OpenAl Service's <u>product page.</u>

Next steps

Have a use case? Speak to your Specialist / AE and sign up for access here: aka.ms/oai/access