Azure AI
Cloud Services

A breakdown

Azure Services

Applied AI

Bot Service | Immersive Reader | Video Indexer | Metrics Advisor

Form Recognizer | Cognitive Search

Azure Cognitive Services

Speech
- Speech to Text
- Text to Speech
- Speech Translation
- Speaker Recognition

Language
- Entity Recognition
- Sentiment Analysis
- Question Answering
- Conversational language understanding
- Translator
- Azure OpenAI

Vision
- ACS for Vision
- Custom Vision

Decision
- Anomaly Detector
- Content Safety
- Personaliser

Azure Machine Learning

Azure Machine Learning

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Applied AI

Pre-built solutions.

Bot Service

A platform where users can build, test and deploy conversational bots using natural language processing techniques.

Use Case:

Assistance on e-commerce platforms: answer customer queries, and guide them through the purchasing process.

Immersive Reader

A service that allows you to embed features that aid reading comprehension, language learning and accessibility support into applications.

Use Case:

Provide personalised reading experiences to those with learning disabilities.

Video Indexer

A video analytics service that uses AI to pull insights from videos.

Use Case:

Analyse video feeds to detect and flag objects of interest.

Metrics Advisor

A tool that uses AI to analyse data and identify important patterns and trends in your business metrics.

Use Case:

Identify sudden drops in conversion rates or spikes in abandoned carts.

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Form Recognizer

A machine learning-based service that extracts information from structured and unstructured documents.

Use Case:

automate the extraction of data from claim forms.

Cognitive Search

A service that enables users to add search capabilities to their applications.

Use Case:

Index and analyse product catalogues to deliver accurate and relevant search results.

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Azure Cognitive Services

Pre-built and pre-trained models.

Speech

Speech to Text

Converts spoken language into written text using automatic speech recognition (ASR) models.

Use Case:

Documenting patient consultations: transcribe doctor-patient conversations.

Text to Speech

A service that generates high-quality speech outputs based on text inputs.

Use Case:

A service that generates high-quality speech outputs based on text inputs.
Voice-enabled customer service: convert text-based customer queries or responses into spoken words.

Speech Translation

This service enables instant translation of spoken languages into various target languages using advanced automatic speech recognition (ASR) and machine translation (MT) technologies.

Use Case:

Accessible travel and tourism app: real-time translation of conversations between tourists and locals.

Speaker Recognition

A speech service feature that verifies and identifies speakers within a piece of audio.

Use Case:

Customer interactions in the banking industry: verify customer identity during account inquiries.

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Language

Entity Recognition

This service uses natural language processing (NLP) techniques to identify and extract named entities from text.

Use Case:

Social media analysis: identifying and categorising entities such as brand and product names.

Sentiment Analysis

This service uses natural language processing to analyse the emotions and opinions coveted in text data.

Use Case:

Social media monitoring: determine sentiment expressed by customers when referring to a brand or product.

Question Answering

This service uses natural language processing models to deliver relevant responses to user queries.

Use Case:

E-learning platforms: provide accurate and detailed answers to students in real-time.

Conversational Language Understanding

This service brings together different AI capabilities to understand and make sense of what users say in conversations.

Use Case:

Travel booking assistant: natural language conversations to search for flights, hotels or other relevant information.

Translator

This service is made up of a set of APIs and developer tools that help you translate text and speech across multiple languages.

Use Case:

Travel booking application: translate hotel descriptions, user reviews and customer inquiries into various languages.

Azure OpenAI Service

This service gives users access to OpenAI's powerful language models, including GPT-3 and Codex, via a REST API.

Use Case:

Improved onboarding process for no-code platform: convert text inputs into a fully-fledged software project.

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Vision

Azure Cognitive Services for Vision

A set of cloud-based services that enables users to add computer vision capabilities into applications.

Use Case:

E-commerce product catalogue management: extract information from product images, such as names, descriptions and attributes.

Azure Custom Vision

A service that enables users to build and deploy custom image recognition models.

Use Case:

Store inventory management: classify and recognise different products on store shelves.

Decision

Anomaly Detector

This service allows users to easily embed anomaly detection into your applications.

Use Case:

Operational efficiency in energy: detect anomalies in smart metre data that may indicate abnormal usage.

Content Safety

This service is a content moderation platform that uses ML models to help identify offensive or inappropriate content in text and images.

Use Case:

Online community management: flag or filter out objectionable content.

Personalizer

A service that works by learning from user behaviour. When a user interacts with an application, Personalizer collects data about the user's preferences and context. This data is then used to train a model that can predict which actions will be most rewarding for the user.

Use Case:

Personalised news recommendations: optimise the selection of news articles based on user engagement and feedback.

Azure Machine Learning

A space for data scientists and developers to upload, train and host machine learning models.

Azure Machine Learning

A comprehensive set of tools to streamline end-to-end machine learning workflow.

Use Case:

Optimising inventory management: analyse historical sales data and production rates to predict future demand.

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