

The background of the slide features a complex, abstract network of nodes and lines. The nodes are represented by small circles in various shades of gray, and they are interconnected by thin, light gray lines, creating a web-like structure that spans the entire slide. The overall aesthetic is modern and technological.

1. Cognitive Services의 이해와 활용

김영욱

Hello AI

Pre-Built AI

Microsoft AI Platform

Azure AI Services

PRE-BUILT AI

Cognitive Services

CONVERSATIONAL AI

Bot Service



CUSTOM AI

Azure Machine Learning

CODING & MANAGEMENT TOOLS

VS Tools
for AI

Azure ML
Studio

Azure ML
Workbench

Others (PyCharm, Jupyter Notebooks...)



Azure Infrastructure

AI ON DATA

AI COMPUTE

Cosmos
DB

SQL
DB

SQL
DW

Data
Lake

Spark

DSVM

Batch
AI

ACS

IoT
Edge

101010
010101
101010

CPU, FPGA, GPU

DEEP LEARNING FRAMEWORKS

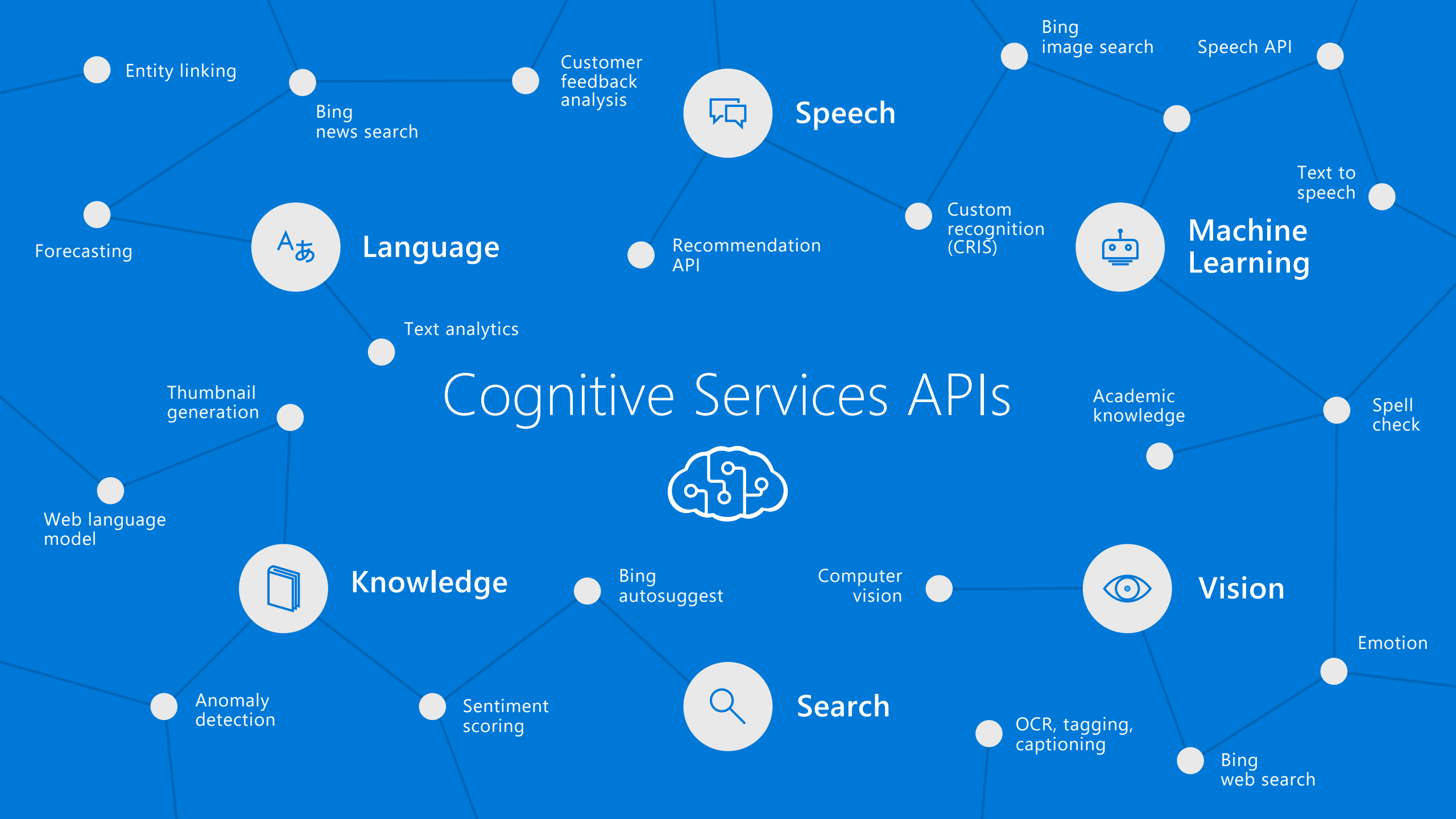
3rd Party

Cognitive
Toolkit

TensorFlow

Caffe

Others (Scikit-learn, MXNet, Keras,
Chainer, Gluon...)





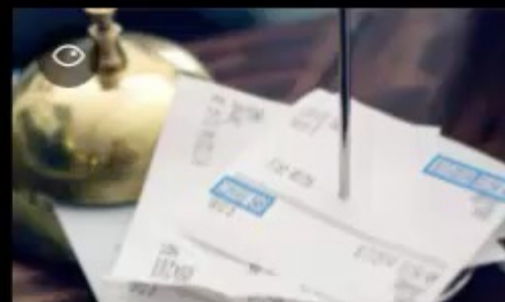


All Vision Speech Language Knowledge Search ★ Favorites

Filter Sort by



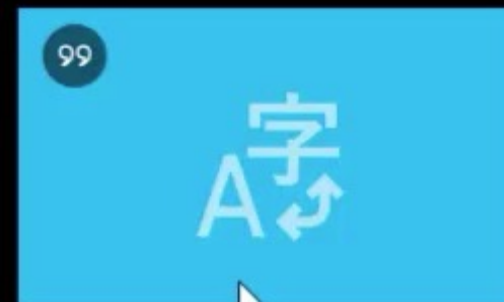
Bing Custom Visual Search
Search for similar images within a catalog of images



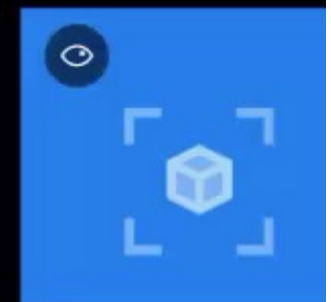
Receipt Understanding
Shows how AI can help extract data from receipts




Cognitive Search Explorer
Explore Cognitive Search using Azure Search + cognitive capabilities



Translator API Explorer
Translate text between multiple languages




Realtime Image Classification
Experience image classification real-time at the edge



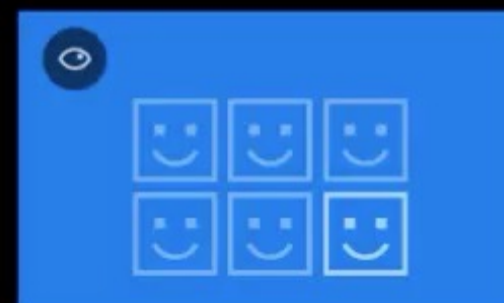
Neural Text To Speech
Hear a male or female voice speak any text you provide



Video Indexer
View insights from a collection of pre-processed videos



Celebrity Match
Find your celebrity look-alike



Million-Scale Face Search
Find celebrity matches for faces in an image



Realtime Object Detection
Detect objects in real-time using Windows ML

Why Cognitive Services ?

쉽다

Roll your own with REST APIs
Simple to add: just a few lines
of code required



유연하다.

Make the same API code call on
iOS, Android, and Windows
Integrate into the language
and platform of your choice



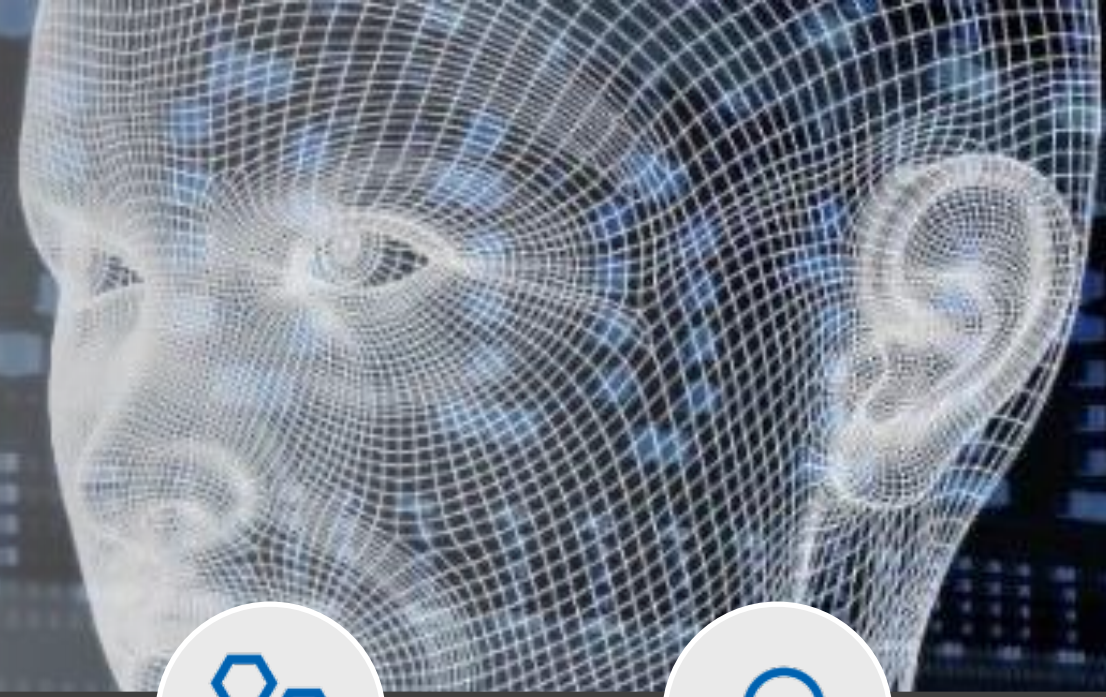
검증되어 있다.

Built by experts in their field from
Microsoft Research, Bing, and Azure
Machine Learning
Quality documentation, sample code,
and community support



Microsoft Cognitive Services

Give your apps a human side



Vision

From faces to feelings, allow your apps to understand images and video



Speech

Hear and speak to your users by filtering noise, identifying speakers, and understanding intent



Language

Process text and learn how to recognize what users want



Knowledge

Tap into rich knowledge amassed from the web, academia, or your own data

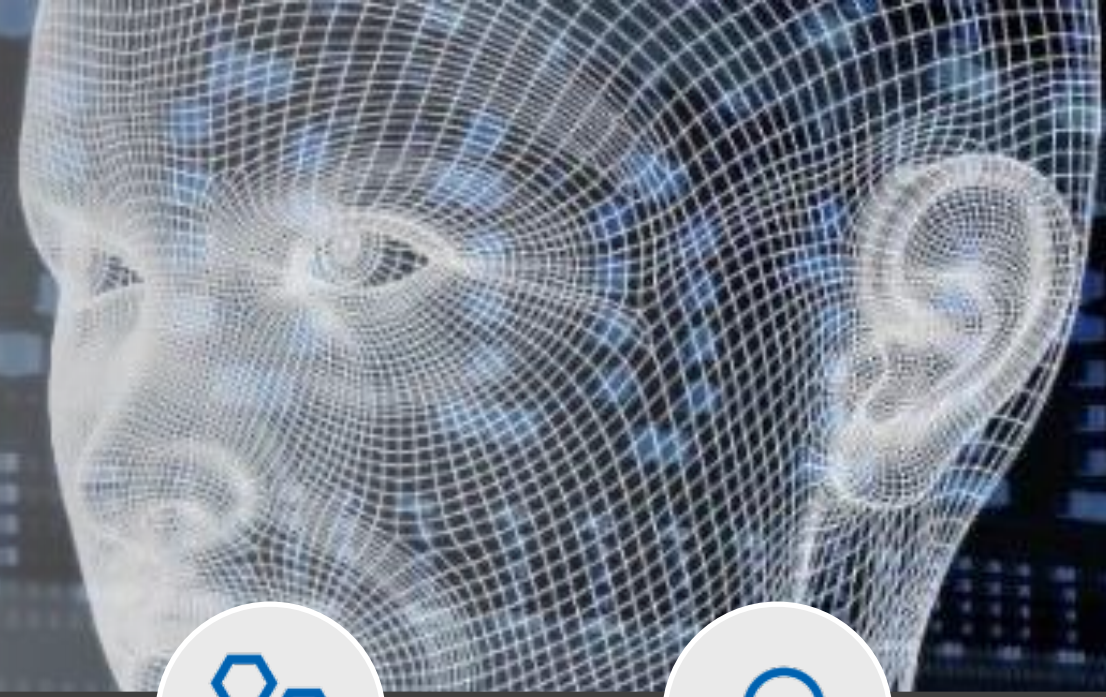


Search

Access billions of web pages, images, videos, and news with the power of Bing APIs

Microsoft Cognitive Services

Give your apps a human side



Vision

From faces to feelings, allow your apps to understand images and video



Speech

Hear and speak to your users by filtering noise, identifying speakers, and understanding intent



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Process text and learn how to recognize what users want



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Give your apps a human side



Computer Vision
Content Moderator

Emotion

Vision

Video

Video Indexer

Custom Vision
Service

Bing Speech
Speaker
Recognition

Custom Speech
Service

Speech

Bing Spell Check
Linguistic Analysis

Text Analytics

Translator Text
& Speech

Web Language
Model

Language
Understanding

Language

Academic
Knowledge
Entity Linking

Knowledge
Exploration

Recommendations

QnA Maker

Custom Decision
Service

Knowledge

Bing
Autosuggest
Bing Image
Search

Bing News
Search

Bing Video
Search

Bing Web Search

Bing Entity
Search

Bing Custom
Search

Search

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Linguistic Analysis
Text Analytics

Language

Translator Text
& Speech

Web Language
Model

Academic
Knowledge
Entity Linking

Knowledge

Recommendations

QnA Maker

Bing
Autosuggest
Bing Image
Search

Search

Bing News
Search

Bing Video
Search

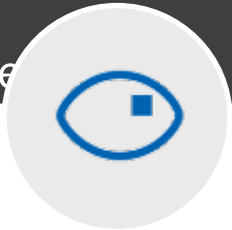
Bing Web Search

Bing Entity
Search

Microsoft Cognitive Services

Customization

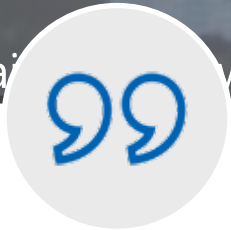
The set of custom services available to customers, allowing customers to use their own data to train models.



Vision



Speech



Language



Knowledge



Search

Custom Vision
Service

Custom Speech
Service


Language
Understanding



Custom Decision
Service






Bing Custom
Search


Microsoft Cognitive Services Trial

<https://azure.microsoft.com/en-us/try/cognitive-services/my-apis/>

 Microsoft Azure

Contact Sales: 080-543-0880  Search  My acc

Overview Solutions Products  Documentation Pricing Training Marketplace  Partners  Support  Blog More 




Computer Vision

Distill actionable information from images

5,000 transactions, 20 per minute.

Add >




Face

Detect, identify, analyze, organize, and tag faces in photos

30,000 transactions, 20 per minute.


Add >



Speech services

Unified Speech Services for free trials on Azure.com. 5,000 transactions per month, 20 per minute. Trial keys will expire after a 30 day period, after which you can create a Cognitive Services account on Azure portal. As part of the bundle, this trial only includes the following: Speech-to-Text, Text-to-Speech, Speech Translation.

Add >



Speaker

Use speech

individual

20,000 tra

minute.

Add >

학생들을 위한 Azure 혜택

<https://azure.microsoft.com/ko-kr/free/students/>

Azure for Students로 미래에 대비하세요!

Azure for Students 체험 계정을 만들고 \$100크레딧 받기

지금 구독하기 >

자격에 대한 FAQ 읽기 >

신용 카드 필요 없음

+

무료 개발자 도구

+

학교 메일 주소를 통해 학생 상태만 확인
하며 \$100 크레딧을 시작할 준비가 되

전문 개발자 도구에 액세스하여 데이터
과학, 인공지능, 기계 학습 및 기타 여

Azure 체험 계정

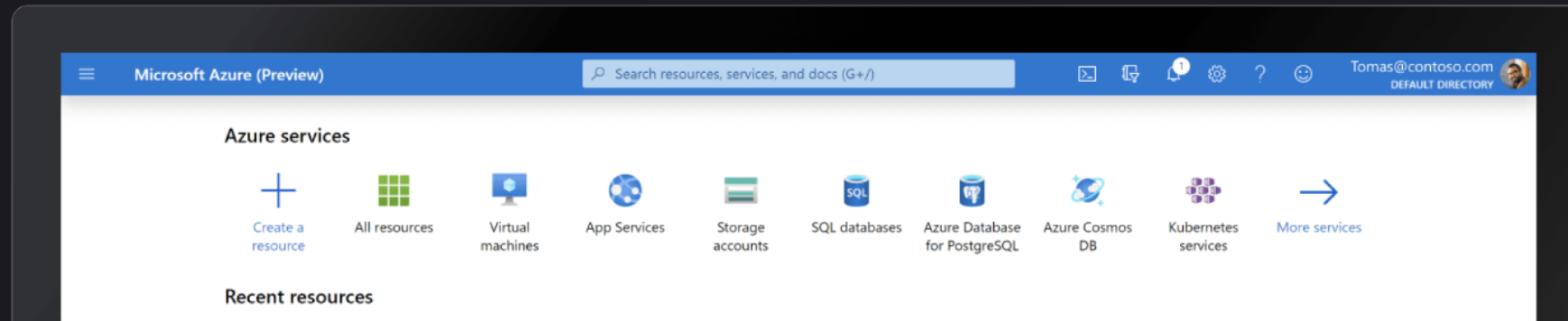
<https://azure.microsoft.com/ko-kr/free/>

지금 Azure 체험 계정 만들기

12개월 체험 서비스 시작

체험 계정 만들기 >

또는 지금 바로 구입 >



Cognitive Services 위한 Python 문법

requests

`requests.get()`

`requests.post()`

get 방식으로 요청

post 방식으로 요청



고맙습니다
Thank you~!