Microsoft

VIETNAM WEB SUMMIT

Integrating Machine Learning into Modern Web App using Cognitive Services

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Microsoft Cognitive Services

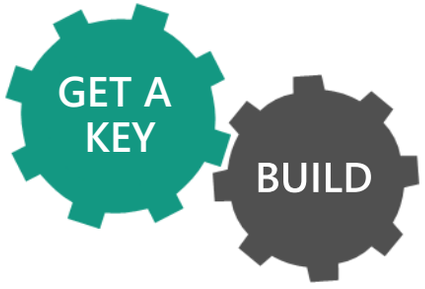
democratizing intelligence

Why Microsoft Cognitive Services?

Easy

Roll your own with REST APIs

Simple to add: just a few lines of code required



Flexible

Integrate into the language and platform of your choice

Breadth of offerings helps you find the right API for your app

Tested

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

Cognitive Services API Collection

Vision

Computer Vision | Emotion | Face | Video

Speech

Bing Speech | Custom Recognition | Speaker Recognition

Language

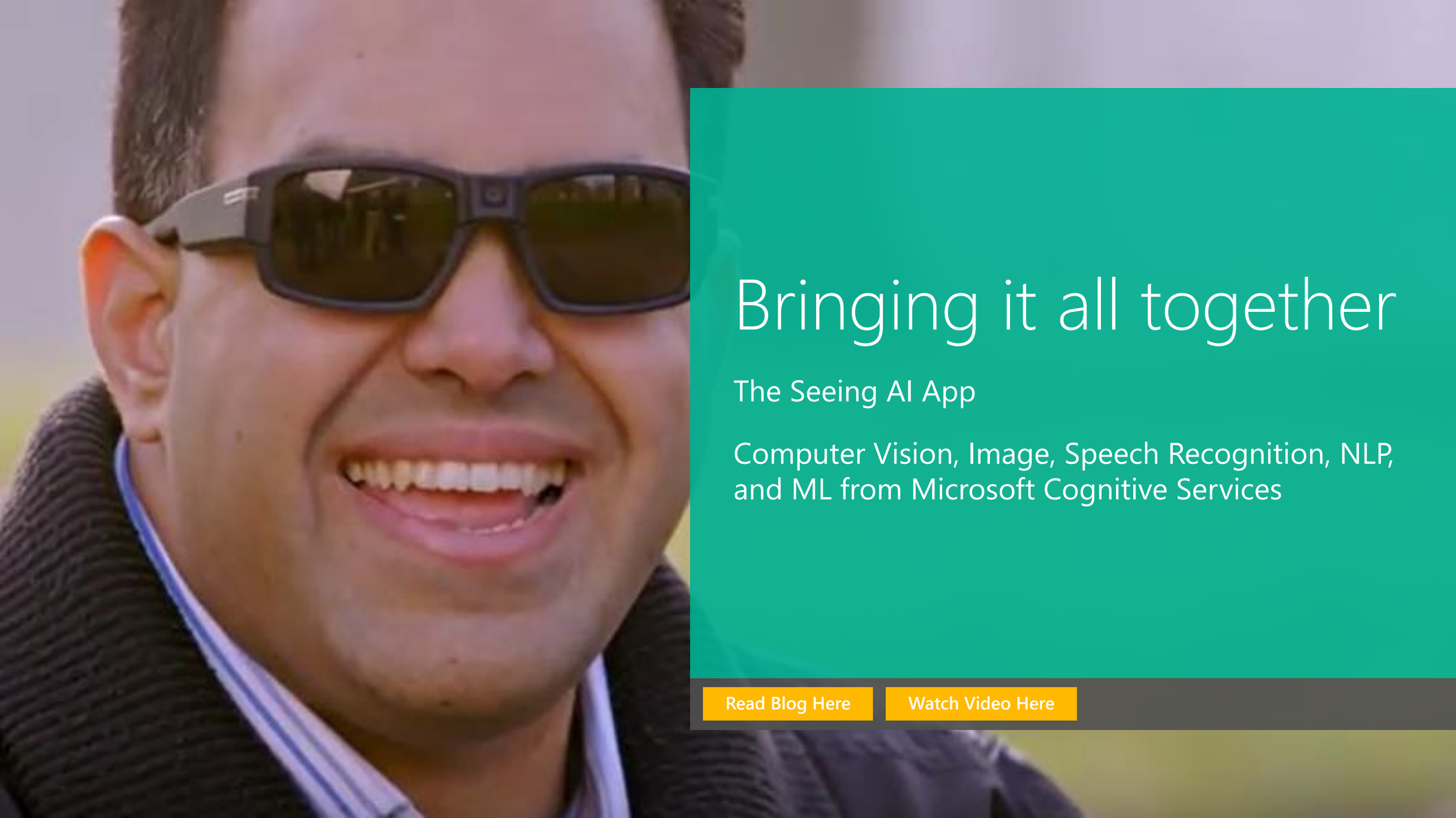
Bing Spell Check | Language Understanding Linguistic Analysis | Text Analytics | Translator | Web Language Model

Knowledge

Academic Knowledge | Entity Linking | Knowledge Exploration | Recommendations

Search

Bing Autosuggest | Bing Image Search | Bing News Search | Bing Video Search | Bing Web Search



Bringing it all together

The Seeing AI App

Computer Vision, Image, Speech Recognition, NLP, and ML from Microsoft Cognitive Services

Read Blog Here

Watch Video Here

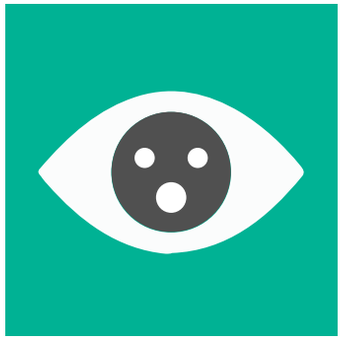
Vision

Computer Vision API

Distill actionable information from images

Face API

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



Emotion API

Personalize experiences with emotion recognition

Video API

Analyze, edit, and process videos within your app

Speech

Bing Speech API

Convert speech to text and back again, and understand its intent

Speaker Recognition API

Give your app the ability to know who's talking

Custom Recognition Intelligent Service

Fine-tune speech recognition for anyone, anywhere

Language

Bing Spell Check API

Detect and correct spelling mistakes within your app

Web Language Model API

Leverage the power of language models trained on web-scale data

Linguistic Analysis API

Easily parse complex text with language analysis

Language Understanding Intelligent Service

Teach your apps to understand commands from your users

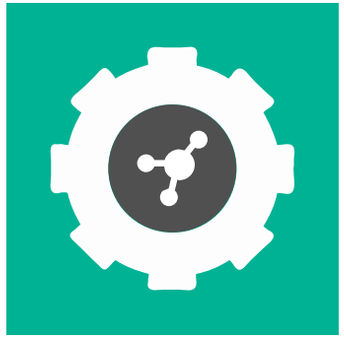
Text Analytics API

Detect sentiment, key phrases, topics, and language from your text

Knowledge

Academic Knowledge API

Explore relationships among academic papers, journals, and authors



Knowledge Exploration Service

Add interactive search over structured data to your project

Entity Linking Service

Contextually extend knowledge of people, locations, and events

Recommendations API

Provide personalized product recommendations for your customers

Search

Bing Web Search API

Connect powerful search to your apps

Bing Autosuggest API

Give your app intelligent autosuggest options for searches

Bing Image Search API

Bring advanced image and metadata search to your app

Bing Video Search API

Trending videos, detailed metadata, and rich results

Bing News Search API

Link your users to robust and timely news searches

APIs in action

Developer Resources

Preview Pricing

https://www.microsoft.com/cognitive-services/en-us/pricing

Documentation

https://www.microsoft.com/cognitive-services/en-us/computer-vision-api/documentation

Client SDKs

https://github.com/Microsoft/ProjectOxford-ClientSDK
https://github.com/felixrieseberg/project-oxford (nodejs)
https://github.com/southwood/project-oxford-python

Example Code

https://github.com/jsturtevant/happy-image-tester-django
https://github.com/jsturtevant/happy-image-tester-nodejs

Join Our Community

https://stackoverflow.com/questions/tagged/microsoft-cognitive
https://social.msdn.microsoft.com/forums/azure/en-US/home?forum=mlapi
https://cognitive.uservoice.com/

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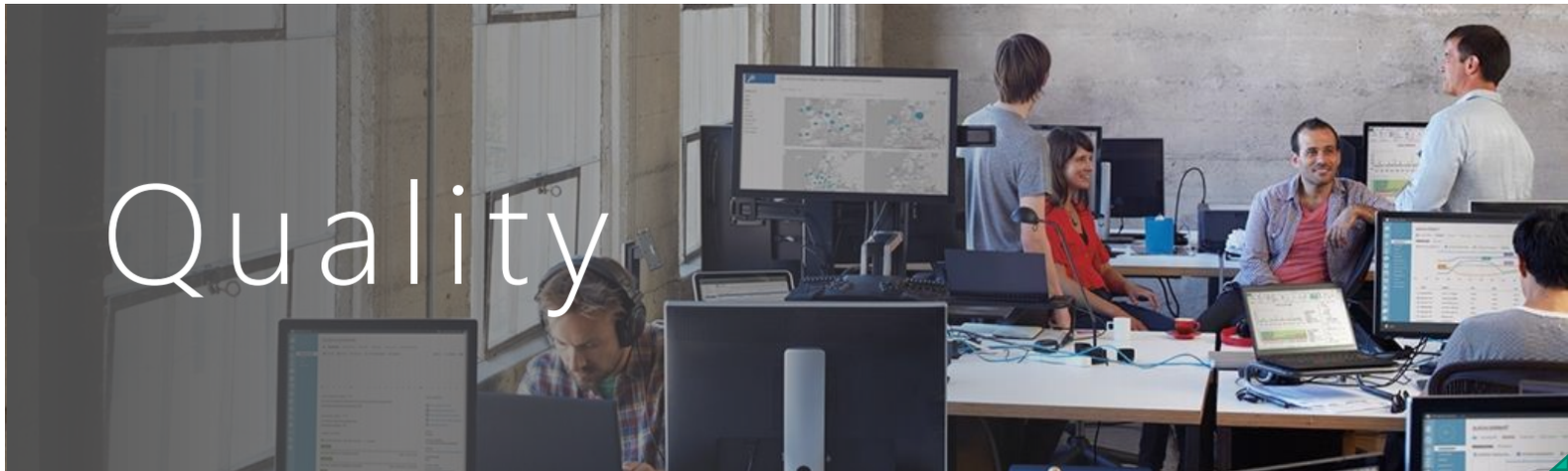

Get started for free at microsoft.com/Cognitive

Q&A

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