

Microsoft Cognitive services with Python

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Maliqi Akbar



20
DP



LIVE
JAKARTA



PROFIT

DEDDY PRANAWA ERYANA

KETUA UMUM
PHRI YOGYAKARTA

FOUNDER HOTEL RUBA
GRAHA YOGYAKARTA

SI-HUKUM
UNIVERSITAS ISLAM INDONESIA

PROPERTY OF 

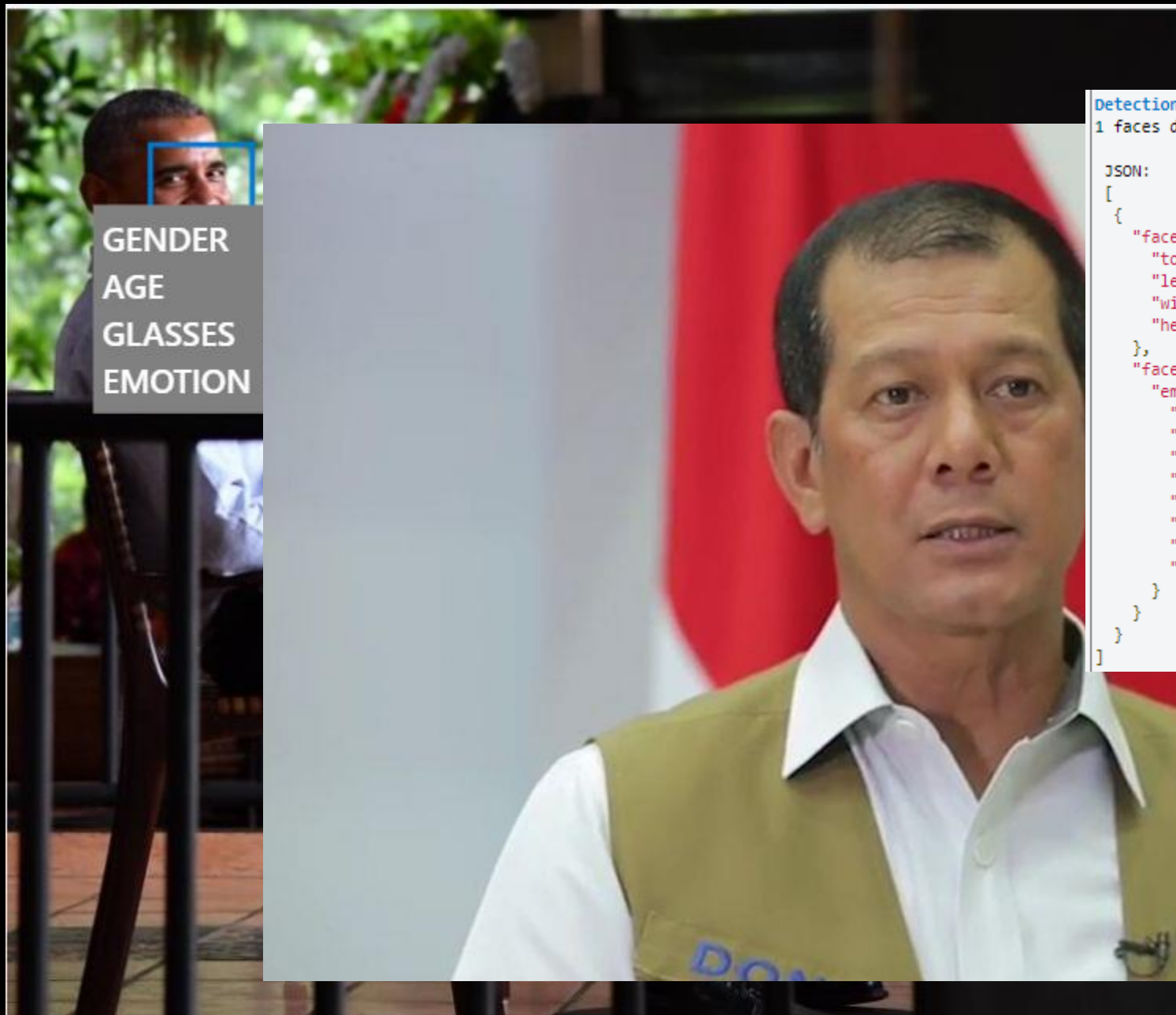
PROPERTY OF 

EBLOK 50%

PROFIT

PANDEMI, RATUSAN HOTEL BANGKRUT





GENDER
AGE
GLASSES
EMOTION

Detection result:
2 faces detected
JSON:

Detection result:
1 faces detected

```
JSON:
[
  {
    "faceRectangle": {
      "top": 120,
      "left": 350,
      "width": 185,
      "height": 185
    },
    "faceAttributes": {
      "emotion": {
        "anger": 0.0,
        "contempt": 0.0,
        "disgust": 0.0,
        "fear": 0.0,
        "happiness": 0.0,
        "neutral": 0.993,
        "sadness": 0.003,
        "surprise": 0.003
      }
    }
  }
]
```


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

Cognitive Services capabilities

Infuse your apps, websites, and bots with human-like intelligence



Vision

Object, scene, and activity detection

Face recognition and identification

Celebrity and landmark recognition

Emotion recognition

Text and handwriting recognition (OCR)



Speech

Speech transcription (Speech-to-text)

Speech Synthesis (Text-to-speech)

Real-time speech translation

Custom Speech models for transcription and translation



Language

Language detection

Text sentiment analysis

Key phrase extraction

Entity recognition

Spell checking

<https://github.com/microsoft/computervision-recipes>

<https://docs.microsoft.com/en-us/azure/cognitive-services/face/quickstarts/client-libraries?pivots=programming-language-python&tabs=visual-studio>

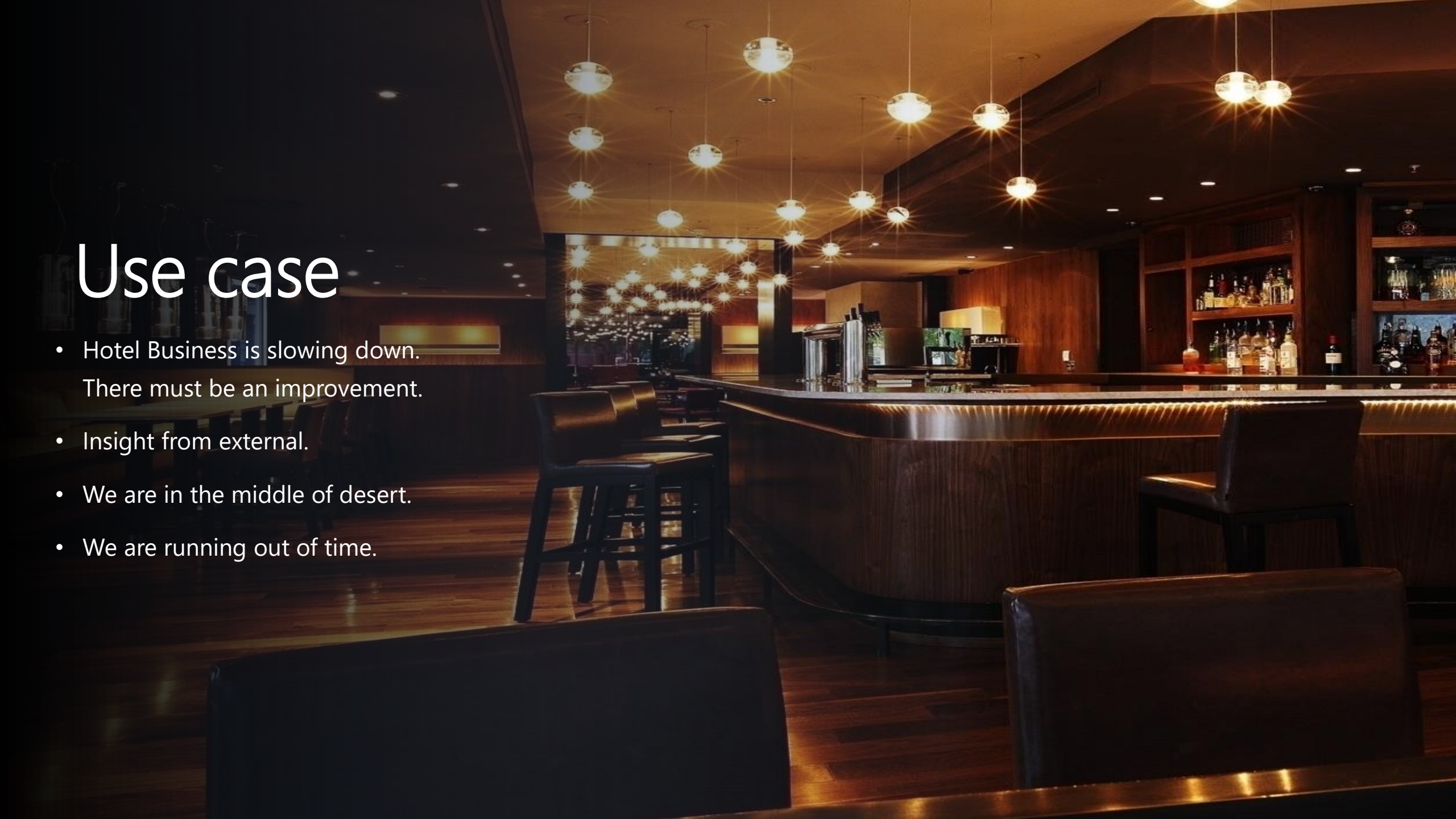
HOLOPORTATION

<https://www.microsoft.com/en-us/research/project/holoportation-3/>



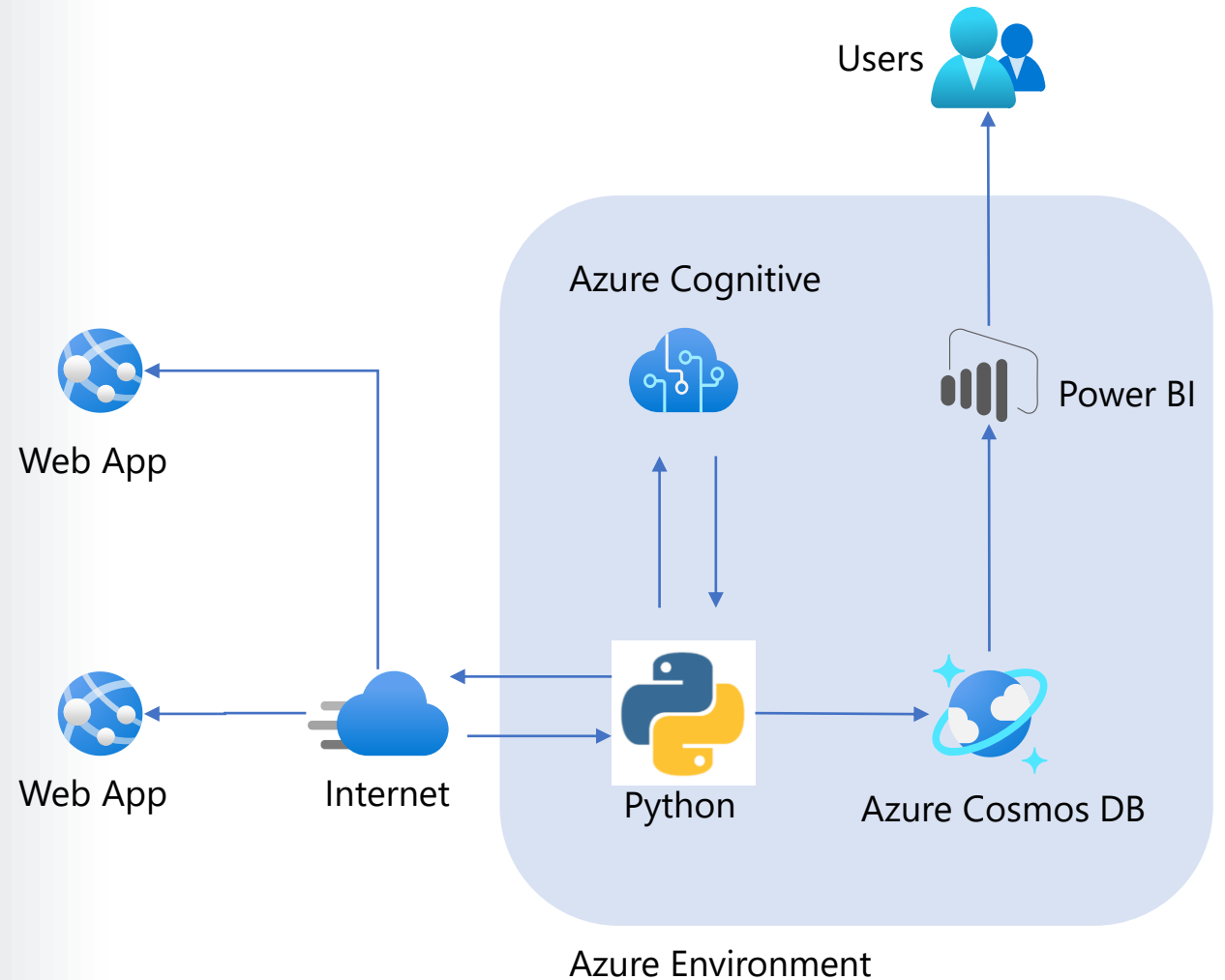
Use case

- Hotel Business is slowing down.
There must be an improvement.
- Insight from external.
- We are in the middle of desert.
- We are running out of time.



What is the idea?

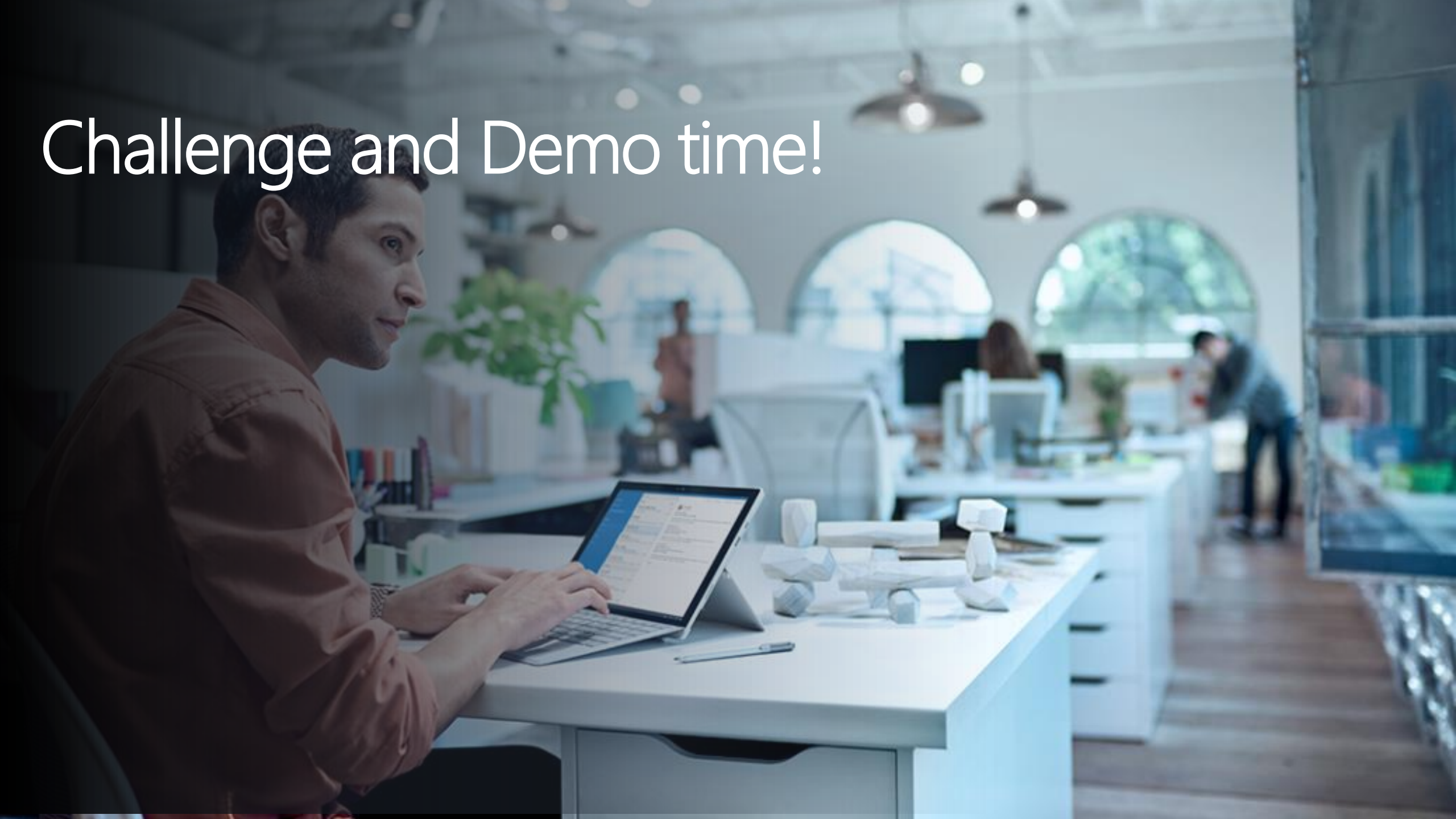
- Python & Selenium (Web Scrapping)
- Azure Text Analytic (Sentiment Analysis)
- Cosmos DB (NoSQL with Gremlin, Mongo DB, Cassandra, SQL, Azure Table)
- Power BI (Faster time to market)



Open discussion



Challenge and Demo time!



Developer Services



Visual Studio Team Services



Azure DevTest Labs



VS Application Insights*



HockeyApp



Developer Tools

Management & Security



Azure Portal



Scheduler



Automation



Log Analytics



Key Vault



Security Center*

Compute



Virtual Machines



Virtual Machine Scale Sets



Cloud Services



Batch



RemoteApp



Service Fabric



Azure Container Service

Web & Mobile



Web Apps



Mobile Apps



Logic Apps*



API Apps



API Management



Notification Hubs



Mobile Engagement



Functions*

Data & Storage



SQL Database



DocumentDB



Redis Cache



Storage: Blobs, Tables, Queues, Files and Disks



StorSimple



Search



SQL Data Warehouse*



SQL Server Stretch Database*

Analytics



Data Lake Analytics*



Data Lake Store*



HDInsight



Machine Learning



Stream Analytics



Data Factory



Data Catalog



Power BI Embedded*

Internet of Things & Intelligence



Azure IoT Suite



Azure IoT Hub



Event Hubs



Cortana Intelligence Suite



Cognitive Services*

Media & CDN



Media Services



Content Delivery Network

Identity & Access Management



Azure Active Directory



B2C*



Domain Services*



Multi-Factor Authentication

Hybrid Integration



BizTalk Services



Service Bus



Backup



Site Recovery

Networking



Virtual Network



ExpressRoute



Traffic Manager



Load Balancer



Azure DNS*



VPN Gateway



Application Gateway

//DevCon/2021

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TEAMS LIVE EVENT • 25 FEBRUARY 2021 • 10.00 -15.00 WIB (GMT+7)

We are inviting CEOs, CIOs, Developers, IT Decision Makers, IT Managers & Professionals, Startups, Students, Educator, Partners, and those who are interested to see where the world's latest technology can help you move forward.

We are in this together!



Speakers*



Haris Izmee
President Director,
Microsoft Indonesia



Scott Hanselman
Partner Program Manager,
Microsoft Corporation



Erica Brescia
Chief Operating Officer,
GitHub



Vony Tjiu
Director of Corporate
Commercial,
Microsoft Indonesia



**Anne Regina
Nancy Toar**
Founder Femalegeek.org

Special Performance & Collaborators:



Dian Sastrowardoyo
Indonesian Art Worker



Deni Yudi Syahputra
HR Lead - Indonesia
& SEA New Market
Microsoft



Prasadhi Artono
Product Growth
Manager,
Microsoft Indonesia



Nina Wirahadikusumah
Enterprise Director,
Microsoft Indonesia

*Update per 16 Feb, based on speaking schedule. Visit registration page for more details and information

Agenda

10.00 – 12.00

**Accelerating
Indonesia's
Digital Economy
through the
Trusted Cloud**

Together we can
recover and
empower Indonesia
to grow our digital
economy.

12.30 – 13.05

**Your languages.
Your tools.
Your Apps.
Any Platform**

Design, build, and
test the software &
systems that makes
technology work.

13.05 –13.45

**Limitless
Analytics & AI**

Leverage trusted
technology platform
for your Data & AI
strategy.

13.45 – 14.15

**Now everyone
can build
low-code
applications**

Low-code/no-code
for citizen and
professional
developers.

14.15 – 15.00

**The Builders of
Indonesia's
Future (students,
educators,
startups)**

Empower your
journey to become
digitally resilient.

Road to



Microsoft Ignite

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Our Speakers:



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Hashtag : #DevCon21 #BerdayakanIndonesia #readyfordevcon21

aka.ms/azureforstudents



A modern office interior with a long, dark conference table and several black ergonomic chairs. Large floor-to-ceiling windows in the background offer a panoramic view of a dense urban skyline with various skyscrapers under a clear sky. The scene is brightly lit by natural light from the windows.

Thank you!

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