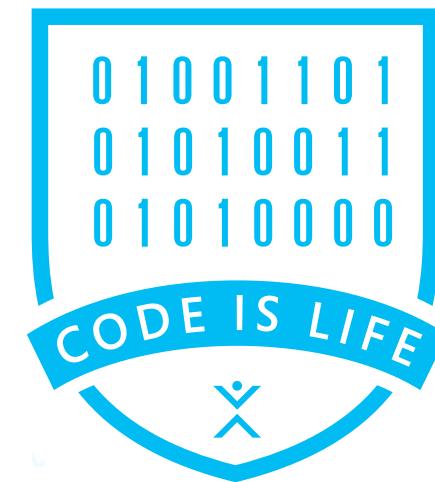


Top AI trends. Microsoft in AI

Ryabukhin Ilya, Architecture Crew Coordinator @ MSD | Azure Mentor



Agenda

AI trends

- Development factors

- Predictions

Microsoft in AI

- Azure for AI Services

- Real examples

Build AI solution

- Approaches

- Live demo

If someone **says they know** exactly what AI will look like and do in 10 years, smile politely, then **change the subject or walk away.**



AI Trends

AI Trends

Local economics boost (by 2030)

26% boost in GDP

\$15.7 tr. contribution

Impact on employees more than employment

2015 – AI recognizes voice and text better than human

AI would free employees from menial tasks

IoT significantly influences AI solutions

Sensors are about to generate 79.4 zettabytes (ZB)* of data until 2025

Building national AI strategies

AI alliances empowered by govt (e.g. Russia)

* 1 ZB = 1 000 000 000 000 GB

Gartner Hype Cycle for Artificial Intelligence, 2019

Question 1.1

If AI solves some tasks better than human, would that cause an unemployment in short run?

In long run?



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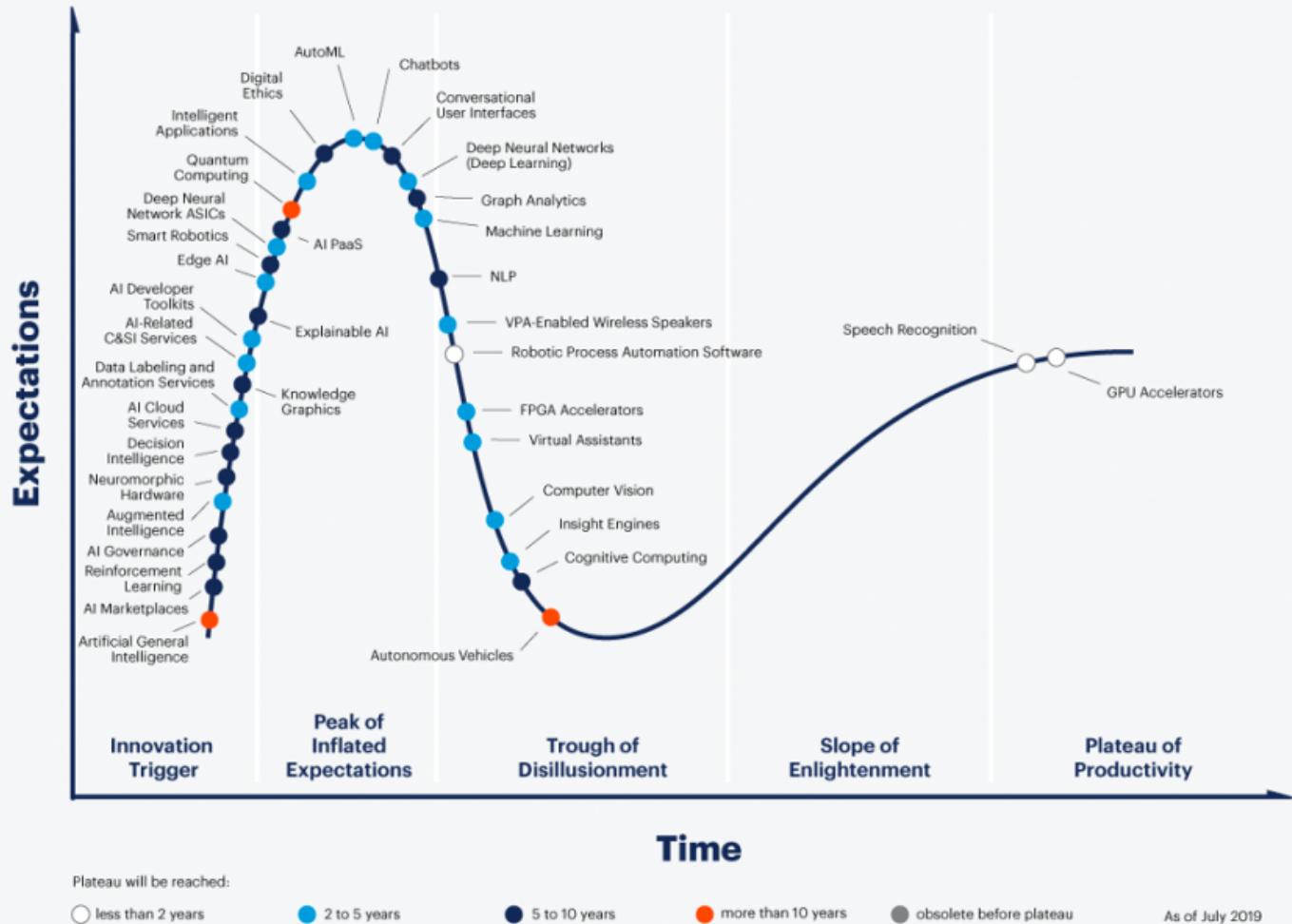
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Gartner Hype Cycle for Artificial Intelligence, 2019

Question 1.2

What's needed to get rid of AI fear: humans' adoption or data?
And to make humans collaborate with AI better?



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Development factors

Development factors

Executive's support

Access to the data

Employee's education

Data

There're domains with broaden data arrays

Law compliance (e.g. GDPR, company's policies)

Hardware acceleration

AI@Edge

Supercomputer by Microsoft

5G

Question 2.1

Would AI violate common freedom or privacy?

Is everything done to prevent all consequences?



Azure for AI



The background of the slide is a large grid of binary digits (0s and 1s) in various colors (blue, cyan, grey, white), arranged in approximately 10 rows and 10 columns. The digits are scattered across the grid, creating a digital or binary-themed aesthetic.

Microsoft in AI

IaaS

Data Science Virtual Machines

PaaS

Cognitive Services

Bot Framework

Machine Learning Service

SaaS

Logic app connecting to Cognitive Services

Decision Making

Search

Language

Cognitive Services

Vision

Speech

Decision Making

Content Moderator

Tool for disabling offensive content

Anomaly detector

Identify potential disease

Personalizer

Deliver more personalized content

Decision Making

Search

Language

Cognitive Services

Vision

Speech

Search

Bing

Visual content

Internet browsing

News

Entities

Orthography check

Decision Making

Search

Language

Cognitive Services

Vision

Speech

Language

QnA maker

Bot with explicit questions list

Text Analytics

Sentiment, key phrases, entities

Text Translate

60+ supported languages

Language Understanding (LUIS)

Enables to understand the context

Decision Making

Search

Language

Cognitive Services

Vision

Speech

Vision

Computer Vision

Classify or detect objects

Face Recognition

Identify people and emotions

Document Recognition

Extract tables, text and key-value pairs

Ink Recognition

Understand handwritten text

Decision Making

Search

Language

Cognitive Services

Vision

Speech

Speech

Text-to-Speech

Converts any speech to text

Speech-to-Text

Lifelike speech for given text

Speech Translation

Near real-time speech translation

Speaker recognition

Identify speaker from group of people

Decision Making

Search

Language

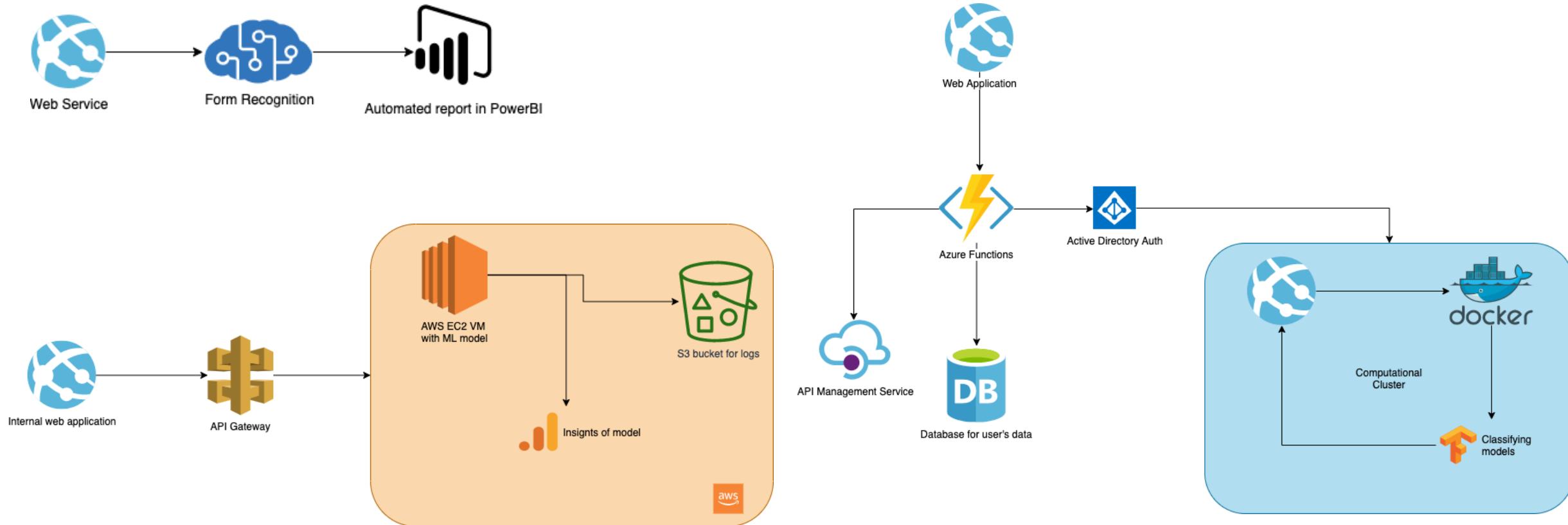
Cognitive Services

Vision

Speech

Examples

Real cases



Live Demo



Assignment

Write an essay about your opinion
on following statement:

*“Artificial Intelligence Services in
Azure is able to fulfill demand on AI
products for next 5-10 years”*

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