

Good Afternoon Everyone

Welcome to Azure Artificial
Intelligence Webinar

Start Time - 02:00 PM

Agenda:

Introduction to AI

Azure Cognitive Services

Create and use a service

Computer Vision

Text Analysis

Python Code

Use Notebooks: Open Source Option to directly start with python code

Azure Machine Learning-Notebooks

Google colab: Free option to run notebooks

Storage Account - Storage that provides me option to save data in a cheaper

resource, flexibility for the kind of data.

XML, Excel, JSON, Image, Video

Store to Storage account

AWS S3 bucket

1. Create Cognitive Service
2. Create Storage account
3. Deploy images to SA for computer vision demo
4. Google colab to start with

Python Code

5. Use the keys and endpoint to create connection

6. Analyse images

MANDATORY: Please fill the feedback

Link in chat window

Key Vault: EKM for keeping all my keys, secrets and certificate safe. The secrets are never exposed

Create a secret in Key Vault - I can use it directly with API, Developer can still not see the value,

API Key - Cognitive Service
SQL Password

API key for Email
Integration

API key for Gmaps/bing
maps

-
-
-

[https://
potatorat68.blob.core.win
dows.net/images/1.jpg](https://potatorat68.blob.core.windows.net/images/1.jpg)

Key Vault -

Storage Account -

Name: Deepanshu

Email:

deepanshu@email.com

JSON:

```
{  
  "name": "Deepanshu"  
,  
  "email": "deepanshu  
@email.com"  
}
```

Notes for the session

Microsoft Official Content

Github Repo -

All the lab steps - step by step instruction

A free trial -

Cognitive service for analysing Images

COMputer Vision/Image Analysis

Resource Group: Container

which holds all the
resources I want to:

Create together -
Manage Together -
Policies
Delete Together

Group of Org - Amazon:
[Amazon.com](https://amazon.com) - E-
commerce
AWS - Cloud service

Group of Org - 40+

Social Media:

1 mobile app - 10+

1 website - 10+

E-Commerce:

1 mobile app: 10+

(delete) Website : 10+

Any app I create: 10+

7 resources created for

VM: NSG, IP address,

VN, Disc,

AI cognitive

Database

Key Vault

Decided - Remove one website

Delete 10+ resources from 40+

1. I forgot one service -
We will be paying for it until we realise we missed one
2. I Accidentally deleted a wrong resource

Region: Decides

1. Cost of the service
2. AVAILABILITY OF SERVICE
3. Type of service – Red Hat VM – Japan, China

BREAK

Start Time – 4:20 PM

Text to speech

Computer Vision - Images
and videos

In the background AI/
Cognitive services
Microsoft - ML

A lot of data -
Time to train the Model
Test -
Retrain with the learn
Deploy my model -
Cognitive Services

Classify - Images

apples

banana

2x2

2x3

Data for patients -
Diabetic, Breast Cancer

Data of a patient -

Perimeter mean,
temperature, BP,.....

Big Data -

Database - Application :
E-Commerce, Social
Media

Notifications, Logs,
Activités, Likes,
Lakhs and crores of users

1 PB

Azure ML:

1. Auto ML -
Dataset and ML
algorithm
2. Notebooks - Compute
to run my ML code -
Python - High compute
- GPU

Cluster of machines

- Parallel Computing

Either I buy these servers

- High compute - GPU

I can rent this service

Notebooks - Implement
the code for AI services

3. Pipeline - GUI to create
the same ML solution
with a drag and drop
option

DevOps, ML, Data
Engineering

Automating the same
process

QNA - Pdf, link to website,
upload any files, Online

Aquatic animals -
Knowledge base -
questions and answers

Anomaly detector:
10-15 year of Payment
records - Highlight pattern

Book – Biography of a person:

I will ask a question:

1. You do not have the index – Topics, page no
2. You have the index

When did the person get from his first salary

1. You will need to go through

2. Check the topics/
heading and then go to
page no

