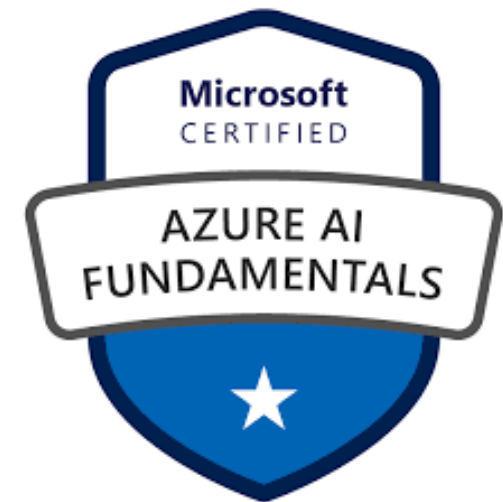


Machine Learning in Azure – Cognitive Services

About me

- Principal Data Scientist
@ Ingram Micro
- 13 years of experience in
Analytics, Reporting and
data engineering/ 3 years
in Cloud
- Organizer at Azure
Developer Communities
– Tamil Nadu
- Microsoft Certified -
Azure and AI Engineer
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Agenda



Welcome Note



Azure Cognitive
services - Entity
extraction



Sentiment Analysis



Language Detection



Resources



Conclusion

Pre-requisites

- Target Audience:
Level: Beginner
The session is intended for developers and beginners who are new to Azure Cloud, Machine Learning and have experience in NLP.
- Azure account, Jupyter Notebook and Power BI
- No Machine Learning experience required

Azure Cognitive Services

Build smarter, more engaging experiences with knowledge & intelligence services from Microsoft
Give your apps a human side

Vision	Speech	Language	Decision	Search
<ul style="list-style-type: none">• Computer Vision• Customer Vision Service• Face	<ul style="list-style-type: none">• Speech Service	<ul style="list-style-type: none">• LUIS• QnA Maker• Text Analytics• Translator	<ul style="list-style-type: none">• Anomaly Detector• Content Moderator• Personalizer	<ul style="list-style-type: none">• Bing News, Video, Web, Custom, Entity, Image, Visual Search

What are Azure Cognitive Services?



Azure pre-trained AI Services provide ready-made intelligence for your applications and workflows.



AI Services easily integrate with your applications to address common use cases such as personalized recommendations, modernizing your contact centre, improving safety and security, and increasing customer engagement.



AI Services on Azure don't require machine learning experience

Why Microsoft Cognitive Services ?

Easy

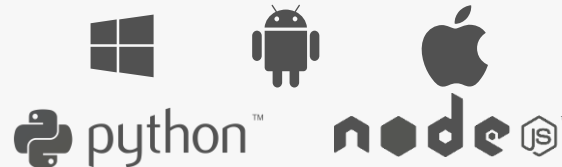
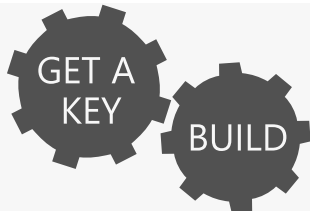
Roll your own with REST APIs
Simple to add just a few lines
of code required

Flexible

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

Tested

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



Do's/Don't

Check

- Check the Azure Resources/Services cost before give a try

Clean up

- Always clean up the unused resources

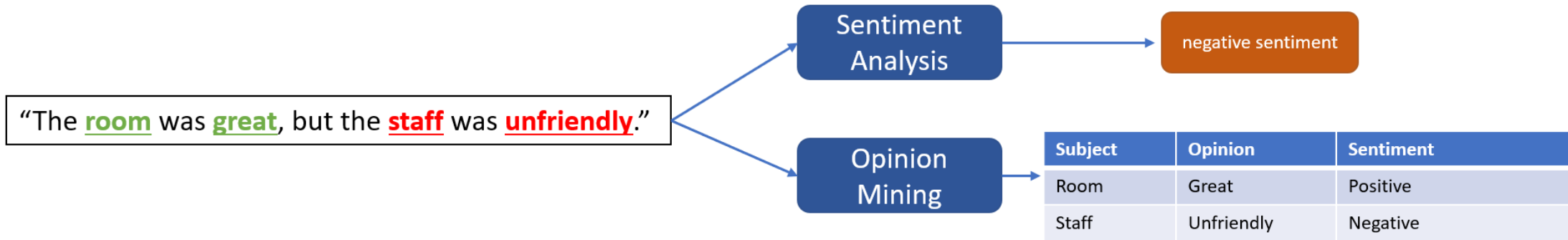
Don't share

- Don't share the key with others



Demo

Sentiment Analysis Vs Opinion Mining



Customer Feedback Analysis

- We are getting insight about their requirements, pain points by doing sentiment analysis and topic generation.
- It help businesses to improve customer satisfaction and reduce churn.
- We can create a benchmark on customer satisfaction, ease of doing business.
- We are able to go in detail about dept/BU, region/country, customer segment.

Learning Resources

- Azure free account:

<https://azure.microsoft.com/en-in/free/>

- QuickStart:

<https://docs.microsoft.com/en-us/azure/architecture/data-guide/technology-choices/natural-language-processing>

- What is Azure Machine Learning?

https://docs.microsoft.com/en-us/azure/machine-learning/overview-what-is-azure-machine-learning?wt.mc_id=AID3035581_QSG_PD_SCL_547447

Open for QnA

Thank you



Machine Learning in Azure

Using Azure ML in Jupyter notebook

January 29, 2022 - 11 AM to 1 PM

- Azure Cognitive services - Entity extraction
- Sentiment Analysis & Language Detection
- Demo - Customer feedback analysis by topic/text extraction, sentiment classification, and translation.



Navaneethan
Principal Data Scientist



13+ years of experience in Data & Analytics.