



Az COMMUNITY

Conference 2022

Asia's Largest Azure Community Conference





Azure Cognitive Services with Jupyter and Power BI

Introduction



- 14 years of experience in Analytics, Reporting and data engineering
- Azure Dev Lead and Microsoft Certified - Azure and AI Engineer
- Enthusiastic learner and tech community contributor

Navaneethan Gopal

Principal Data Scientist @ Ingram Micro

[LinkedIn - https://www.linkedin.com/in/navaneethan-gopal-9b101612/](https://www.linkedin.com/in/navaneethan-gopal-9b101612/)

[Twitter - https://twitter.com/NavaneethhGopal](https://twitter.com/NavaneethhGopal)



Agenda



Welcome Note



Azure Cognitive
services - Entity
extraction



Sentiment Analysis



Language
Detection



Case study



Resources

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

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

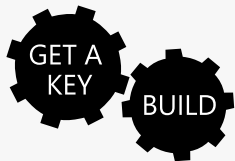
Vision	Speech	Language	Decision	OpenAI Service
<ul style="list-style-type: none">• Computer Vision• Custom Vision• Face API	<ul style="list-style-type: none">• Speech to text• Text to speech• Speech translation• Speaker recognition	<ul style="list-style-type: none">• Entity recognition• Sentiment analysis• Question Answering• Conversational language understanding• Translator	<ul style="list-style-type: none">• Anomaly Detector• Content Moderator• Personalizer	<ul style="list-style-type: none">• OpenAI Service Preview

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

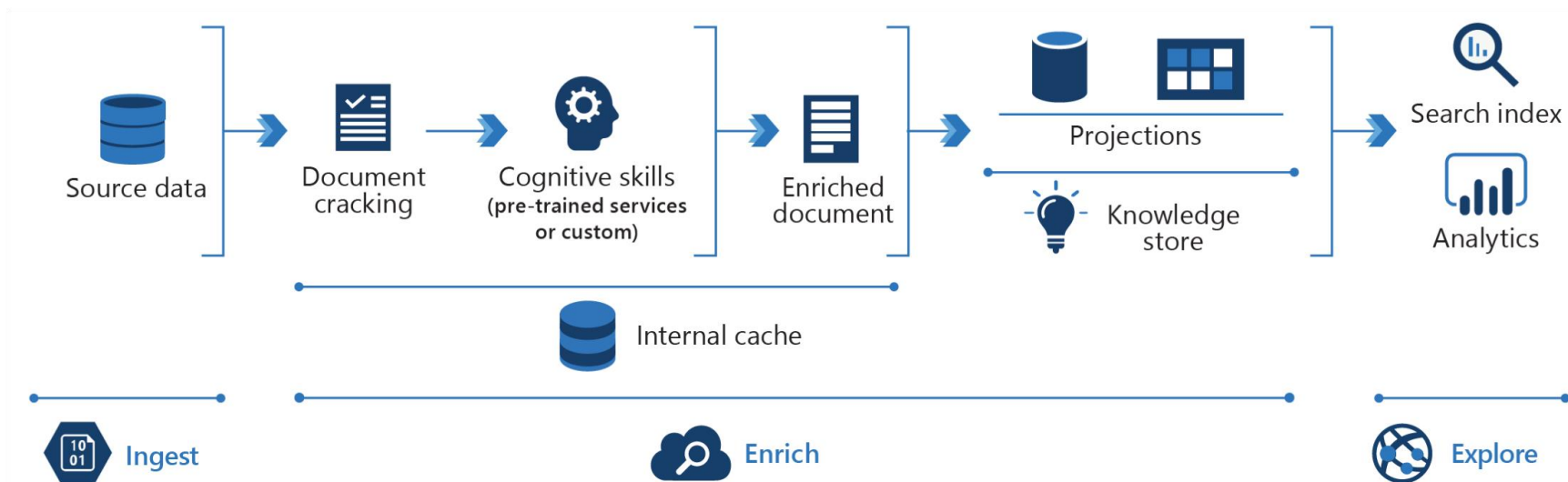


Tested

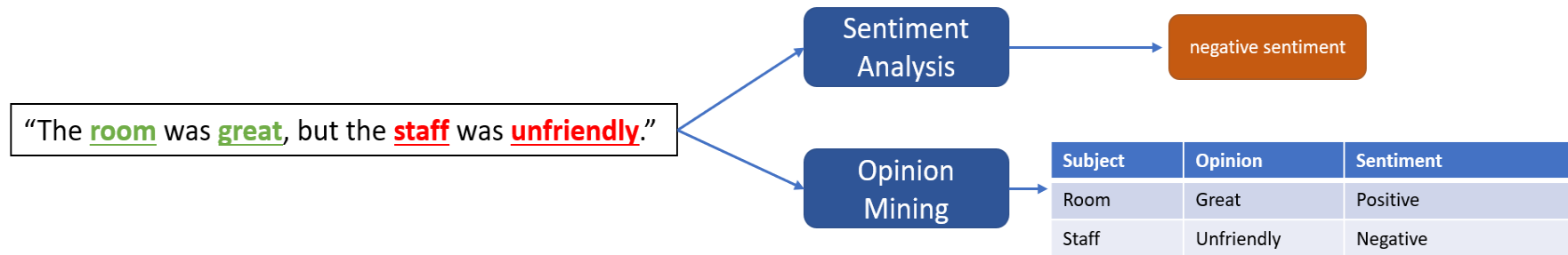
Built by experts in their field from
Microsoft Research, Bing, and Azure
Machine Learning
Quality documentation, sample code,
and community support



Architecture



Sentiment Analysis Vs Opinion Mining



Customer Feedback Analysis



- Track Customer Sentiment
- Determine which Customer segments have the strongest opinions
- Plan product improvements
- Determine the effective communication channels
- Prioritize the customer service issues
- Create a benchmark on customer satisfaction, ease of doing business.

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

Platinum Partner



Gold Partner



Silver Partner



Open for Q&A



#AzConfDev

Thank you!!

