Tamil Nadu

Welcomes you

What we do?

Meetups

Network of Beginners, Professionals & Experts

Azure Cert Study Jam

Corporate / Startup Talk

Podcasts

Fun contests

AI services across verticals and segments

Introduction

- 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/
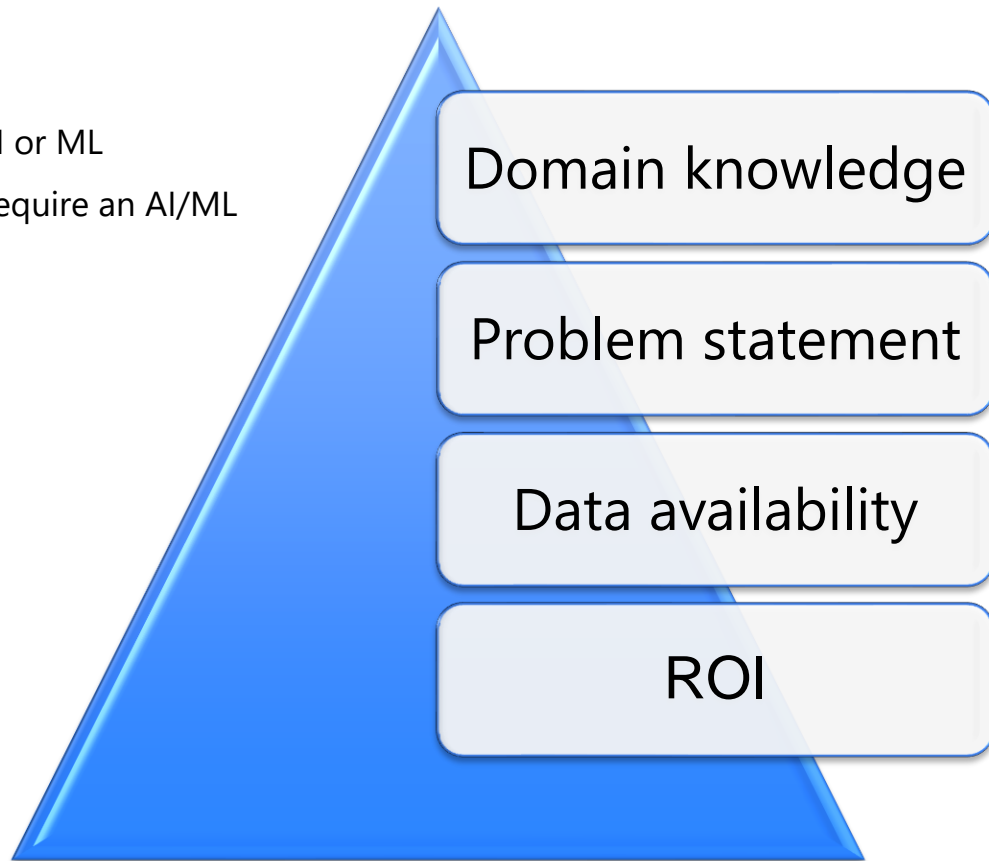Twitter - https://twitter.com/NavaneethhGopal

Simplicity is always best

Starting points

- Do you really need AI or ML
- Does your problem require an AI/ML

Domain knowledge

Problem statement

Data availability

ROI

Agenda

Welcome Note

Azure Cognitive services - Speech

Azure Video Indexer

Case study

Resources

Target Audience:

Level: Beginner

The session is intended for developers and beginners who are new to Azure Cloud, Machine Learning.

Azure account, Jupyter Notebook

Source:

NPCs - non-player characters

AI for Game development

- AI in gaming is about creating more responsive, adaptive & challenging games using artificial intelligence.
- NPCs
- Path Finding
- Decision Making
- Content Generation
- Deterministic/ Non-Deterministic techniques

- **Benefits**
- Smarter & More realistic
- Save time & Cost
- Ease of using
- Eliminates predictability

*Source: https://www.engati.com/blog/ai-in-gaming*

Azure speech AI

- We can build voice-enabled apps confidently and quickly with the Speech SDK
- Its easy for us to transcribe speech to text (STT) with high accuracy, produce natural-sounding text-to-speech (TTS) voices, and translate spoken audio.
- Translate speech in real-time
- Verify & recognize speakers
- Use Speech services to convert voice to text and continue text Analytics

Source: https://azure.microsoft.com/en-gb/products/cognitive-services/speech-services/

Why Microsoft Cognitive Services ?

Easy

Roll your own with REST APIs

Simple to add just a few lines of code required
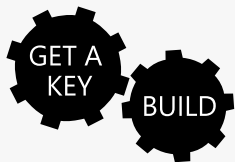
Flexible

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

Source:

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

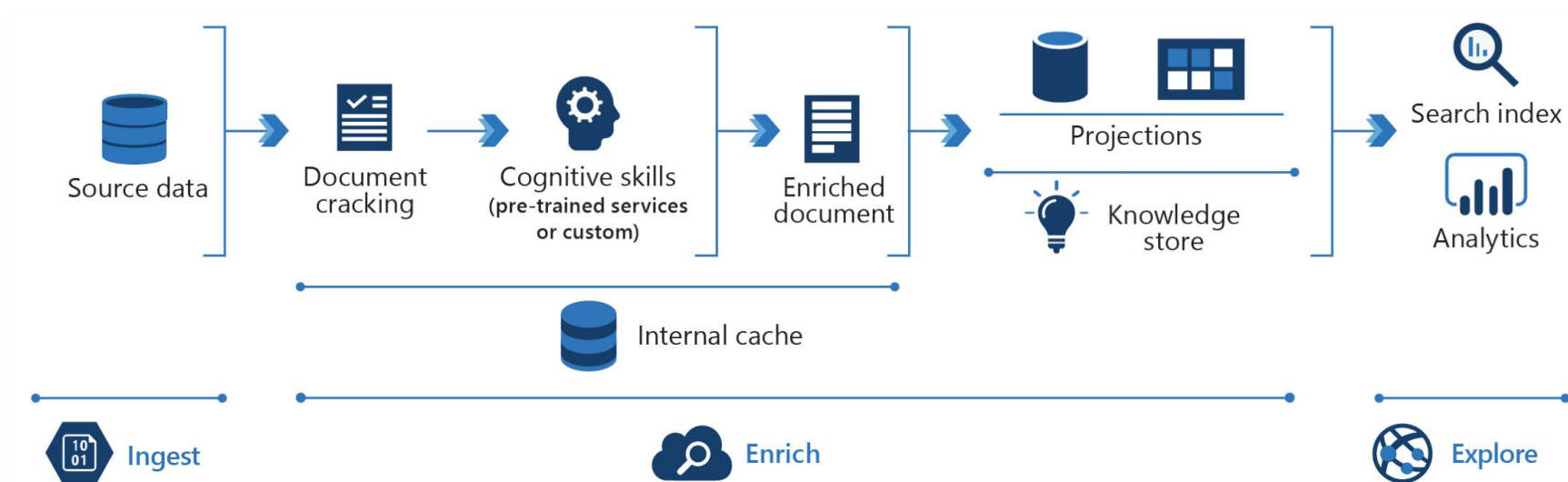| Vision	Speech	Language	Decision	OpenAI Service
• Computer Vision • Custom Vision • Face API	• Speech to text • Text to speech • Speech translation • Speaker recognition	• Entity recognition • Sentiment analysis • Question Answering • Conversational language understanding • Translator	• Anomaly Detector • Content Moderator • Personalizer	• OpenAI Service Preview

Source:

Open for Q&A

Thank you!!

Power of Artificial Intelligence

ORIGINAL SCENE - R RATED

Architecture

Source: https://learn.microsoft.com/th-th/azure/architecture/solution-ideas/articles/customer-feedback-and-analytics

Sentiment Analysis Vs Opinion Mining

"The **room** was **great**, but the **staff** was **unfriendly**."

Sentiment Analysis → negative sentiment

Opinion Mining →

Subject	Opinion	Sentiment
Room	Great	Positive
Staff	Unfriendly	Negative
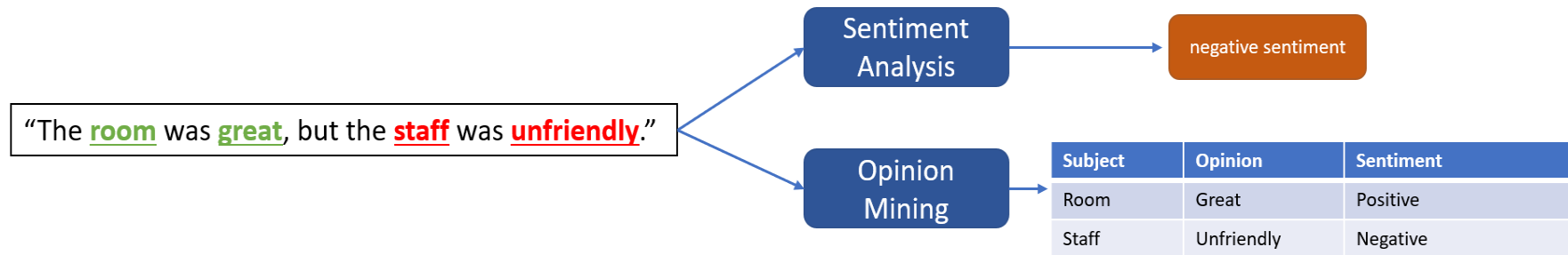
Customer Feedback Analysis

- 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

Source: