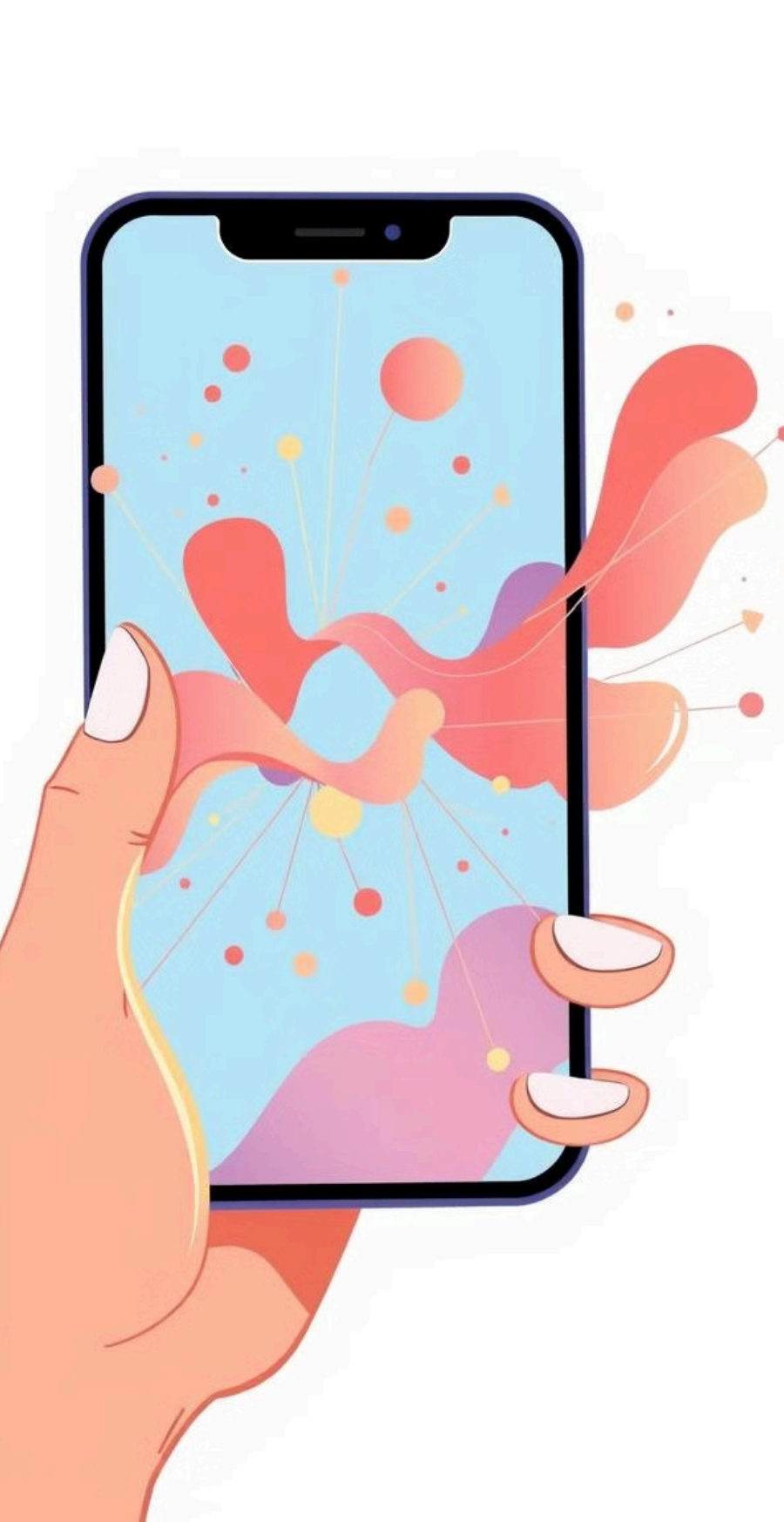


# Azure AI Language: Empowering Intelligent Applications

Unlock the power of language with Azure AI. This presentation will introduce Azure AI Language, explore its core components, and demonstrate how it can transform your applications.

PRESENTED BY - INDRA REGAR





# Natural Language Processing (NLP) with Azure

Azure AI Language empowers your applications with NLP capabilities, enabling them to understand, interpret, and generate human language. Leverage Azure's NLP capabilities for tasks like text classification, sentiment analysis, and language translation.

1

## Understanding Natural Language

Azure AI Language helps applications understand the nuances of human language, including context, sentiment, and intent.

2

## Processing Text Data

Azure AI Language enables the extraction of insights from unstructured text data, making it easier to analyze and interpret.

3

## Enhancing User Experiences

By enabling natural language interactions, Azure AI Language can create more engaging and intuitive user experiences for applications.

# Azure Cognitive Services for Language

Azure Cognitive Services offers a suite of cloud-based APIs specifically designed for language-related tasks. These services provide pre-trained models and APIs that can be easily integrated into your applications.

## Text Analytics

Extract key insights from text, including sentiment, key phrases, and topics.

## Language Understanding (LUIS)

Build custom AI models to understand user intent from natural language input.

## Translator Text API

Translate text between multiple languages, ensuring seamless communication across different markets.



Artificial  
intelligence  
innovations  
innovations

# Azure Text Analytics API

Azure Text Analytics API offers a powerful tool for gaining valuable insights from unstructured text data. Analyze text to identify key themes, sentiment, and other valuable information.

1

## Sentiment Analysis

Determine the overall sentiment of a piece of text, understanding its positive, negative, or neutral tone.

2

## Key Phrase Extraction

Identify the most important phrases within a text, providing a concise summary of the content.

3

## Language Detection

Automatically detect the language of a text, enabling multilingual content processing.

4

## Entity Recognition

Identify and categorize entities, such as people, organizations, and locations, within text.



# Azure Language Understanding (LUIS)

Azure Language Understanding (LUIS) empowers your applications to understand user intent from natural language input. Build custom models to interpret user queries and trigger appropriate actions.

1

## Intent Recognition

LUIS analyzes user input and identifies the user's intended action.

2

## Entity Extraction

LUIS extracts key information from user input, such as names, dates, and locations.

3

## Action Triggering

Based on identified intents and entities, LUIS triggers appropriate actions within your application.

# Azure Translator Text API

Azure Translator Text API provides real-time translation services for your applications. Translate text between multiple languages seamlessly, enabling global communication and accessibility.

## Features

## Details

### Language Support

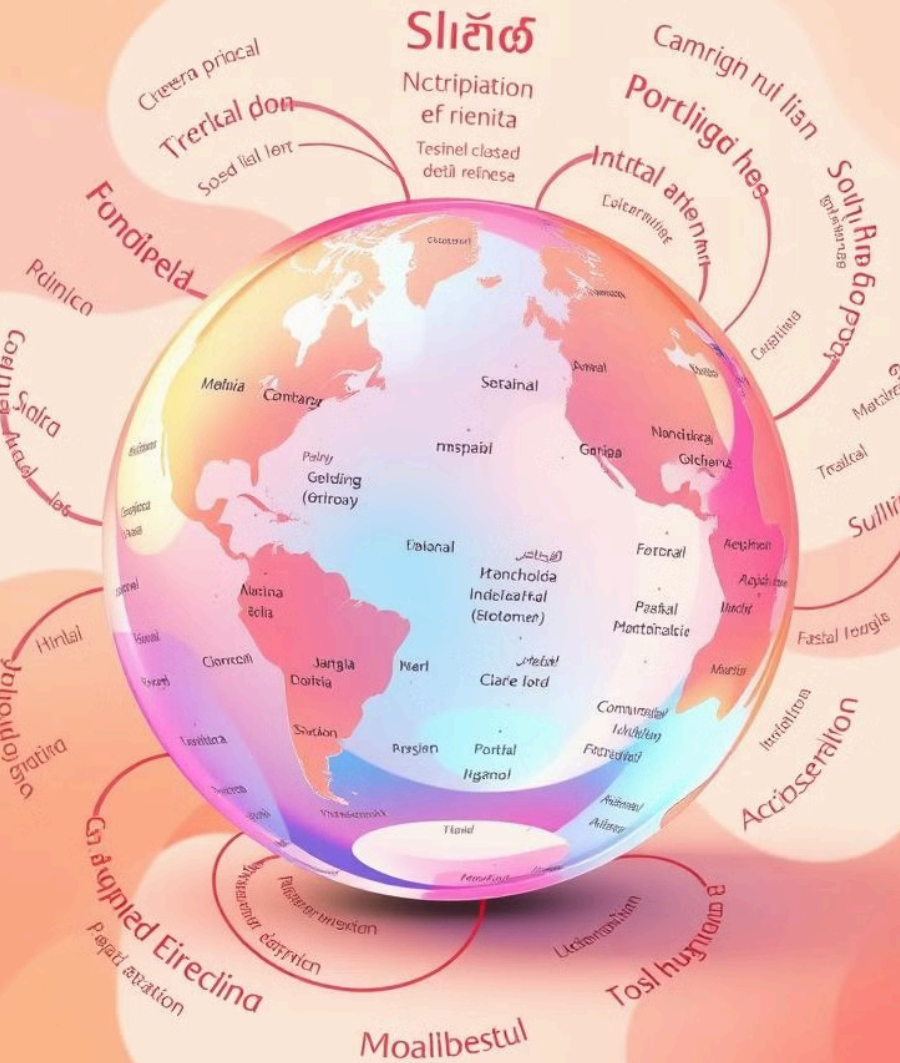
Supports translation between over 70 languages.

### Text Translation

Translate text strings, documents, and entire websites.

### Customizable Translation

Create custom translation models for specific domains or industry needs.





# Azure Speech to Text and Text to Speech

Azure Speech to Text and Text to Speech APIs enable your applications to convert speech to text and vice versa. Enhance user experiences with seamless voice interactions and accessibility features.



## Speech to Text

Convert spoken audio into text, enabling transcription and voice command processing.



## Text to Speech

Convert text into natural-sounding speech, creating interactive and engaging voice experiences.



## Voice Assistants

Power voice assistants and conversational interfaces, enabling users to interact with applications using their voice.





# Conclusion and Key Takeaways

Azure AI Language offers a comprehensive suite of services that empower your applications with intelligent language capabilities. Leverage these services to build applications that understand, interpret, and generate human language.

## Language Understanding

Azure AI Language enables applications to understand the nuances of human language.

## Data Extraction

Extract valuable insights from unstructured text data through powerful analysis tools.

## User Experience

Enhance user experiences with natural language interactions and voice-powered interfaces.