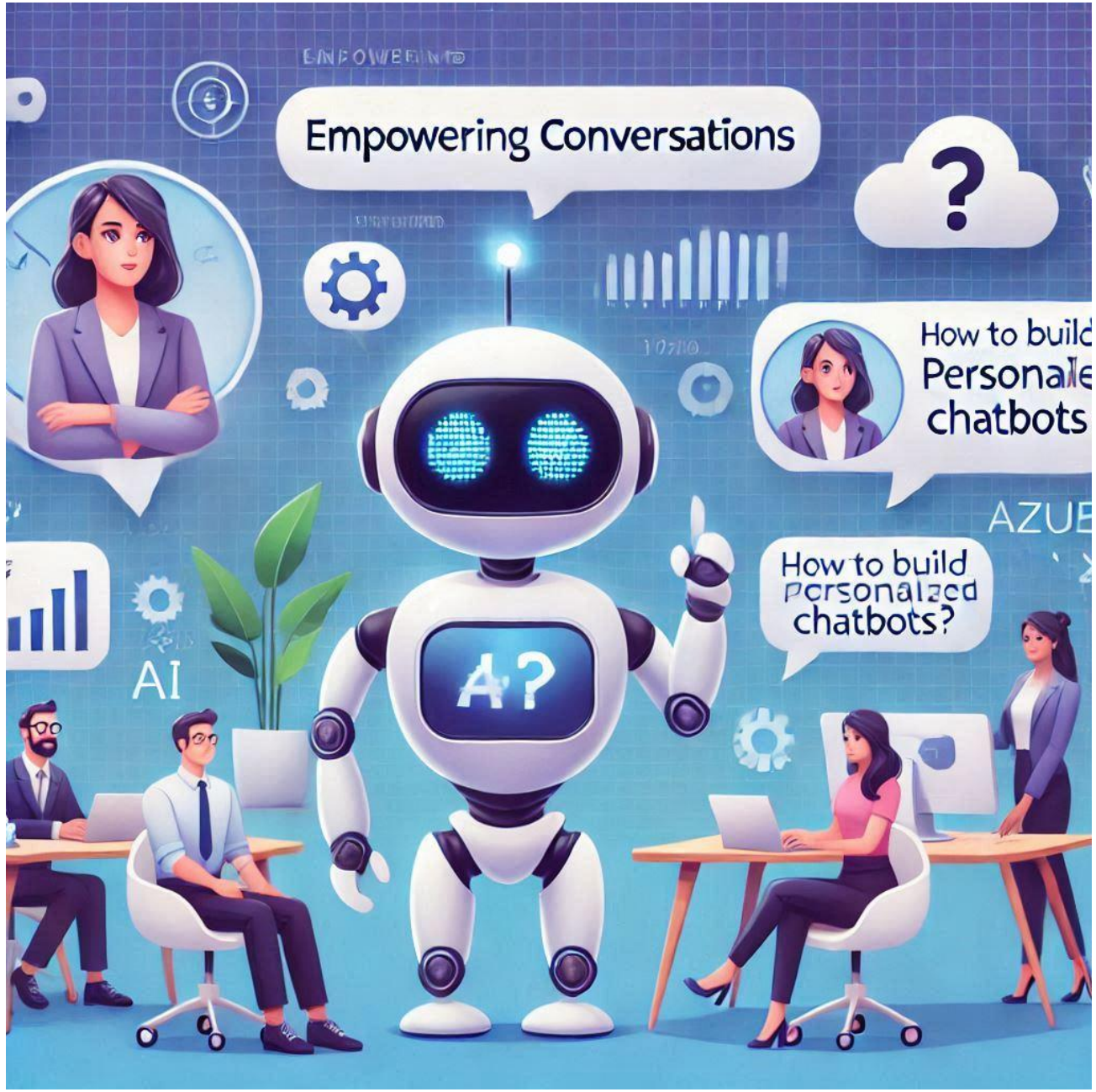


Empowering Conversations: How to Build Personalized Chatbots Using Azure AI

NAVEEN KUMAR M

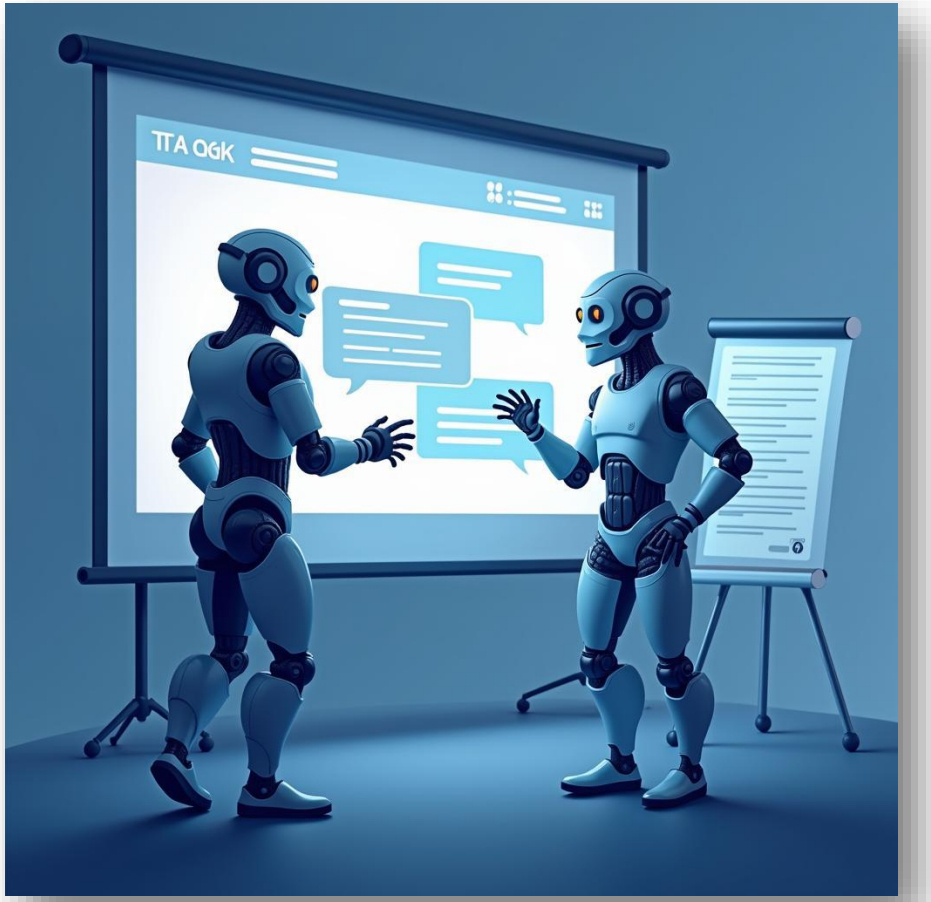
About Me

Naveen Kumar M

- DATA ENGINEER
- 13 YEARS OF EXPERIENCE
- C# CORNER MVP
- TECHNICAL BLOGGER
- SPEAKER & MENTOR

Agenda

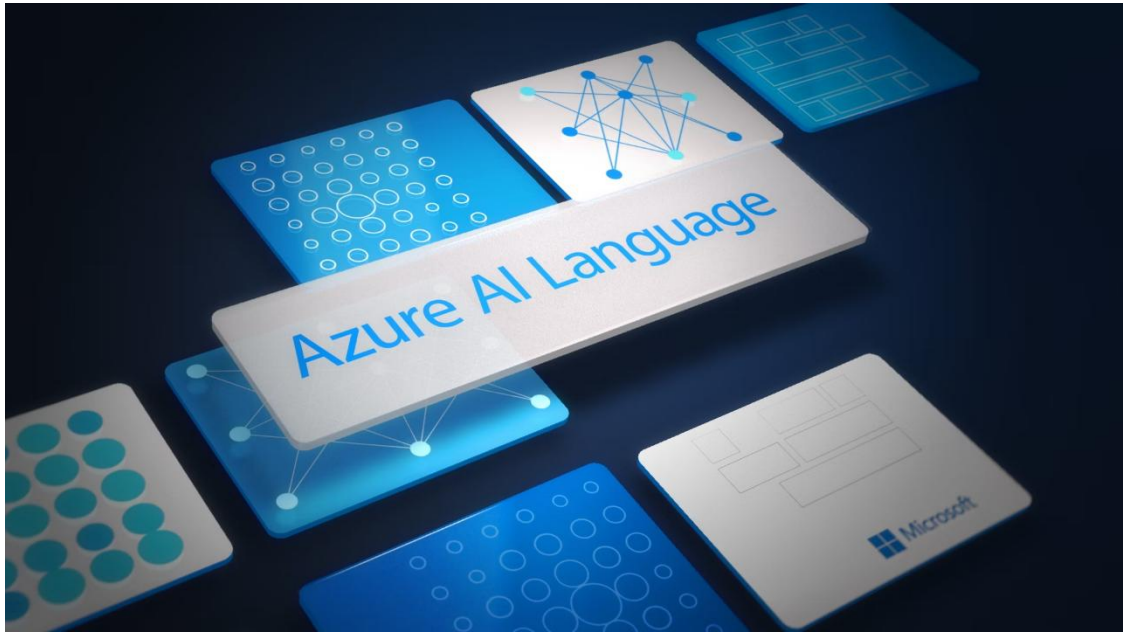
- Azure AI Language Service
- Natural Language Processing
- Conversational AI
- Understand Question Answering
- Demo



Azure AI Language

What is Azure AI Language Service?

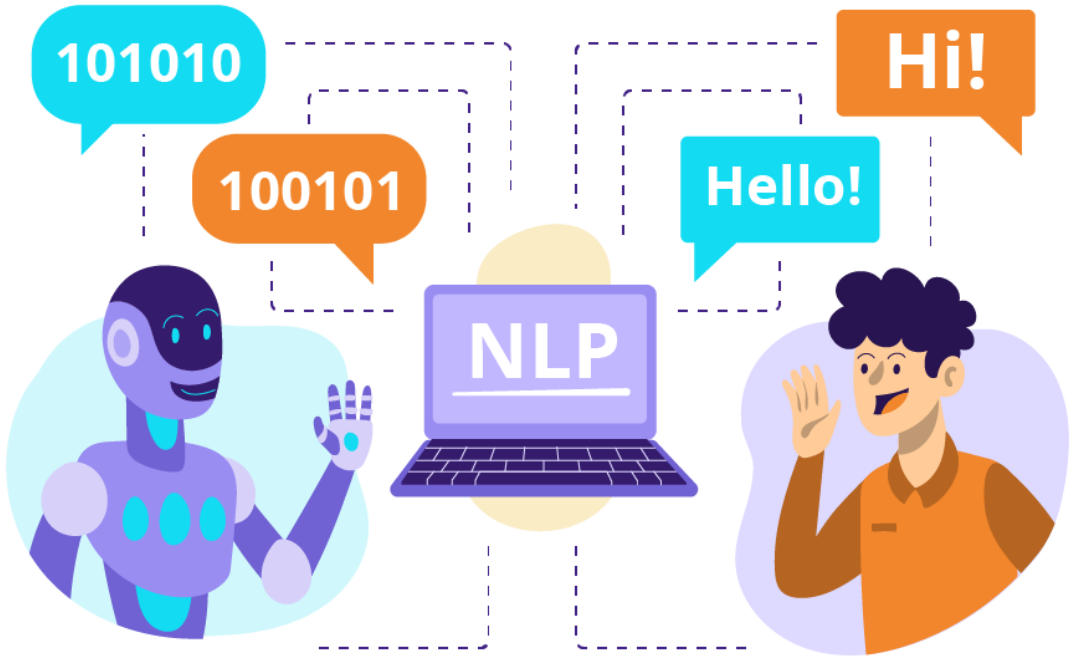
- Cloud-based service.
- Provides NLP feature for understanding and analyzing human language.
- Helps to build intelligent Apps.



Natural Language Processing

What is NLP?

- Field of Artificial Intelligence.
- Focuses on the interaction between computers and humans using natural language.
- Enables machines to understand, interpret, and generate human language.



Conversational Language Understanding

Conversational Language Understanding

- To build language models that interpret the meaning of phrases in a conversational setting.

Three Core Concepts

- Utterances
- Entities
- Intents

Required Resource Types To Use CLU Capabilities

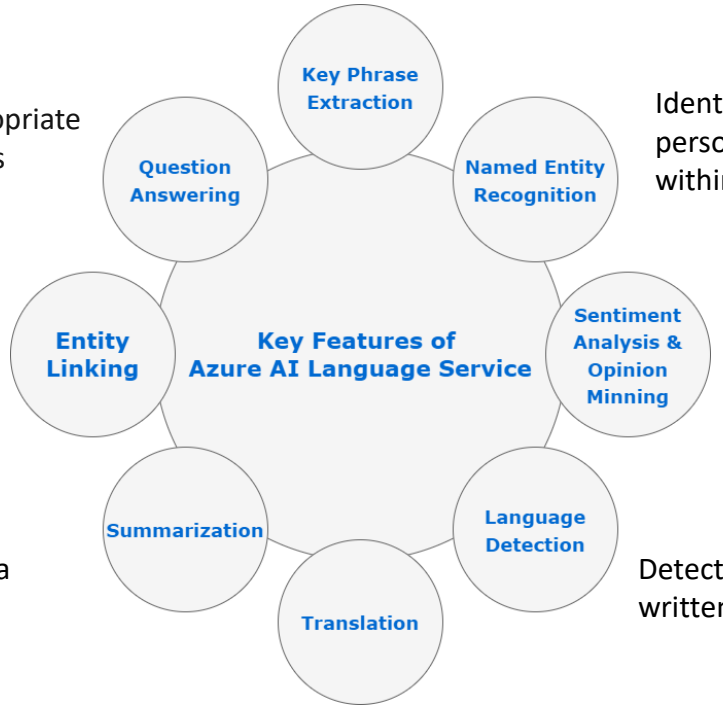
- Azure AI Language
- Azure AI Service

Key Features of Azure AI Language

Identifying and extracting the most significant phrases or terms from a given text.

Feature that finds the most appropriate answer for inputs from your users

Identifying and categorizing named entities such as persons, organizations, locations, dates, and more within a given text



Feature that disambiguates the identity of entities (words or phrases) found in unstructured text and returns links to Wikipedia

Feature determine the emotional tone (positive, negative, or neutral) in a sentence or document-level.

Feature provides more granular information about the opinions related to words in text.

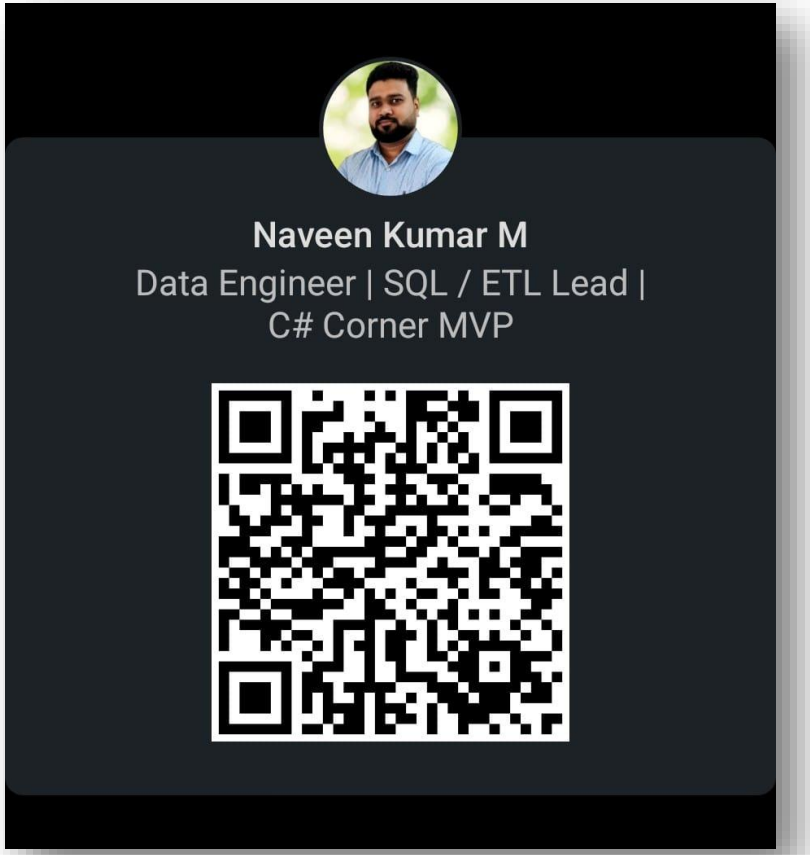
Extractive text summarization to produce a summary of documents and conversation transcriptions.

Detect the language a document is written in, and returns a language code..

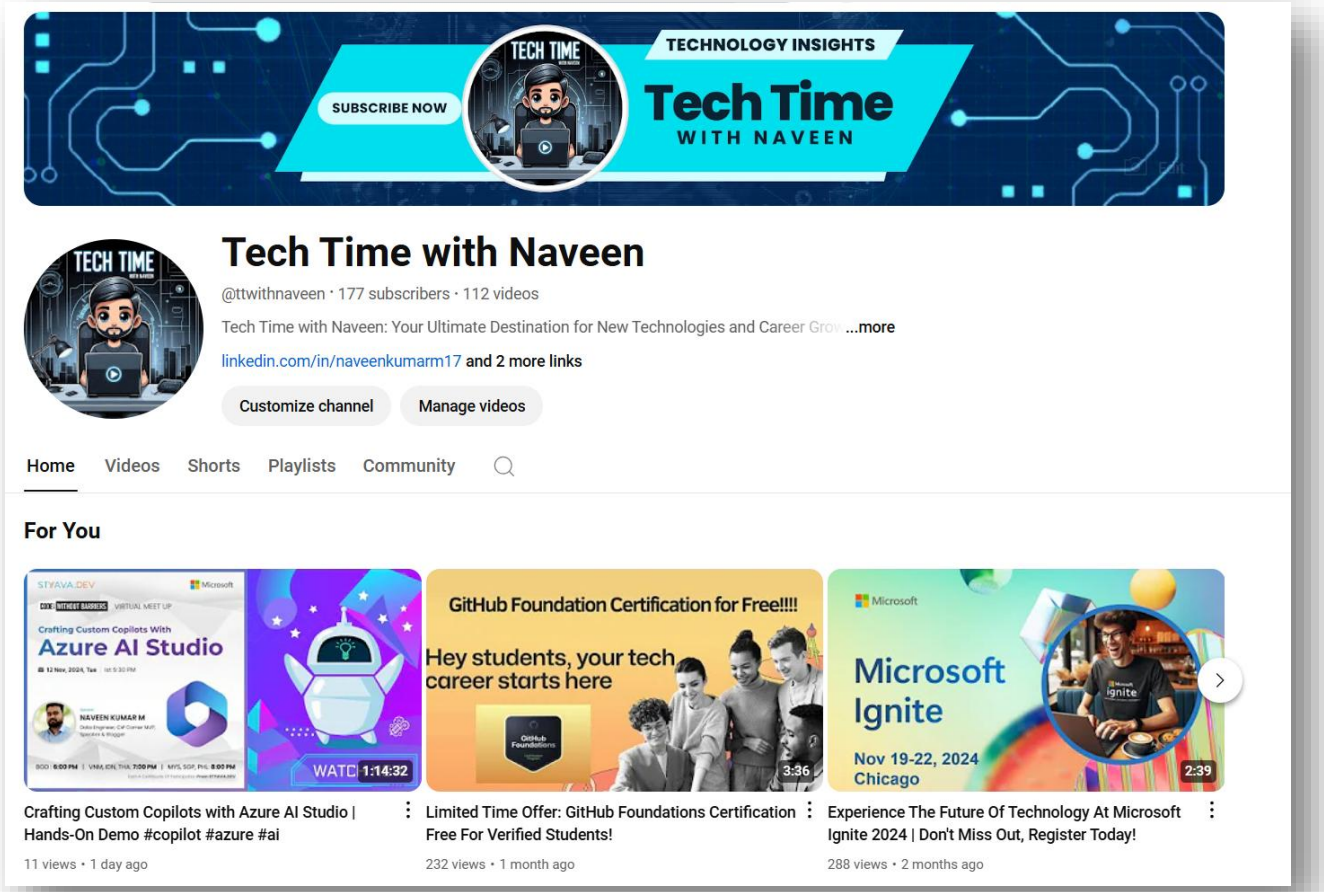
Process of predicting the likelihood of a sequence of words, helping machines understand and generate human-like text.

DEMO

LinkedIn



YouTube



@ttwithnaveen

Thank you!