

# Understand AI Based Chatbots

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# Overview



- Components of an AI Chatbot
- Natural Language Processing
- Understanding Intent

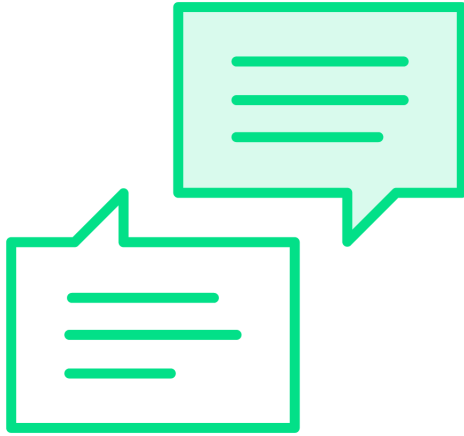


# Components of an AI Chatbot

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# Components of an AI Chatbot



**Natural Language Processing**

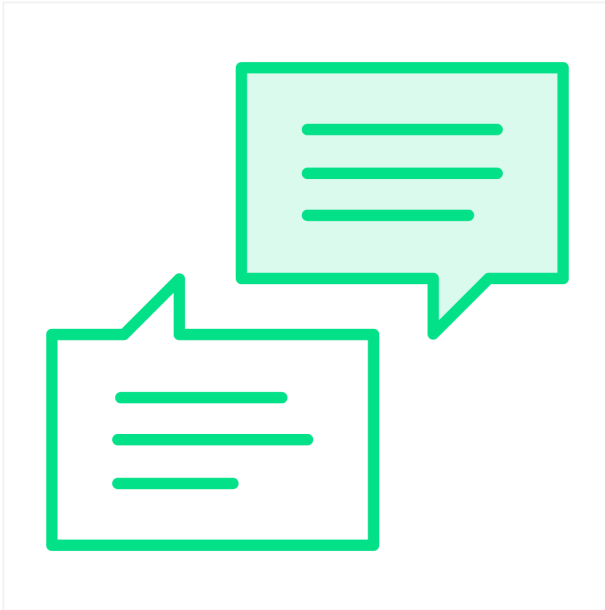


**Machine Learning**

# What is Natural Language Processing

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# Natural Language Processing

**Branch of AI that gives computers the ability to:**

- Read
- Understand
- Derive meaning from human languages

**We use NLP in many areas of our day-to-day already like:**

- Auto Correction Feature
- Citation Checker etc.



# Machine Learning

**Branch of AI**

**Uses Data and Algorithms to imitate humans' ability to learn**

**Does this without explicitly being programmed**

**By collecting data in Chatbots, its able to improve response**

**This is done through a Knowledge Base**



# Knowledge Base

**Merges the benefits of NLP and ML**

**Learn from past conversation**

**Understand Slangs**

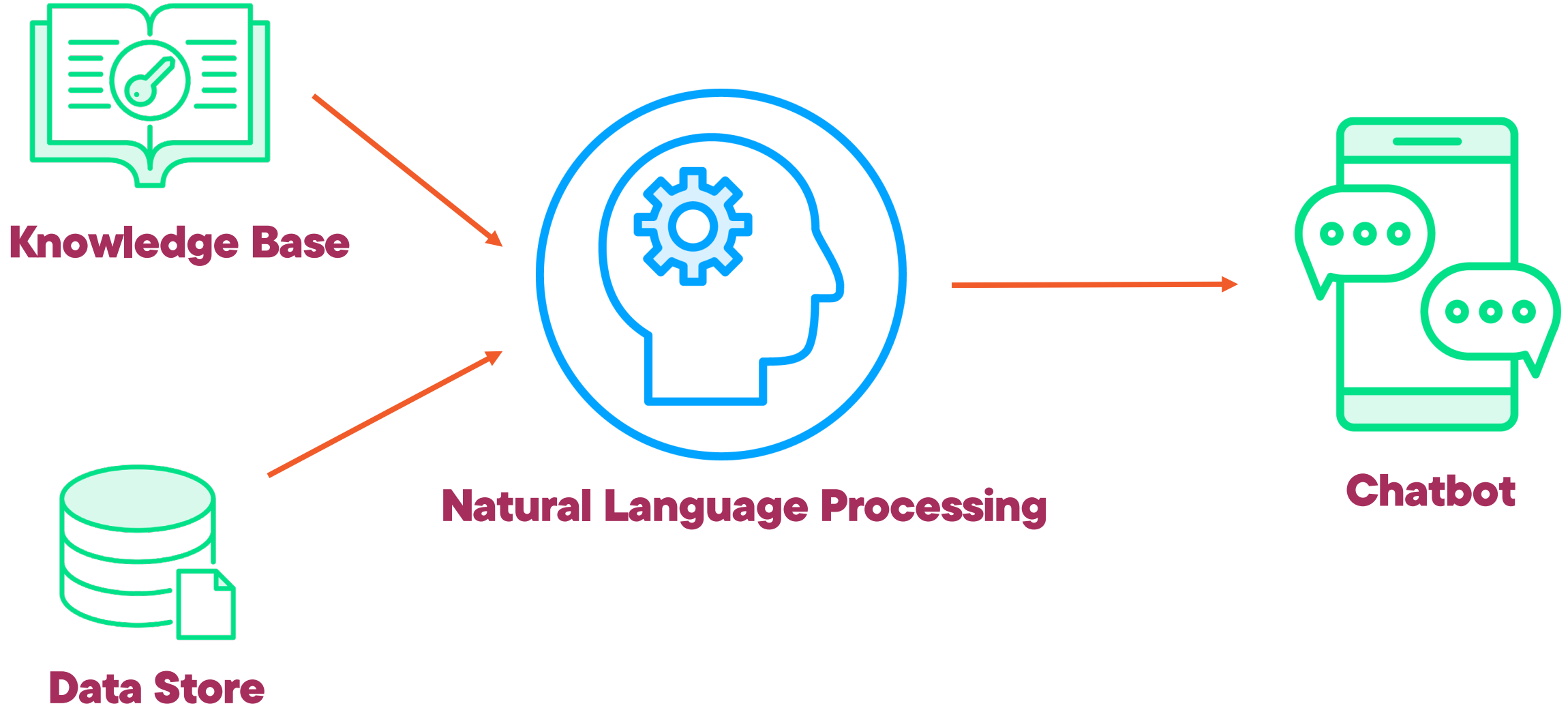
**Analyze Emotion**

**Perform wide range of task**





# Diagram of an AI Chatbot

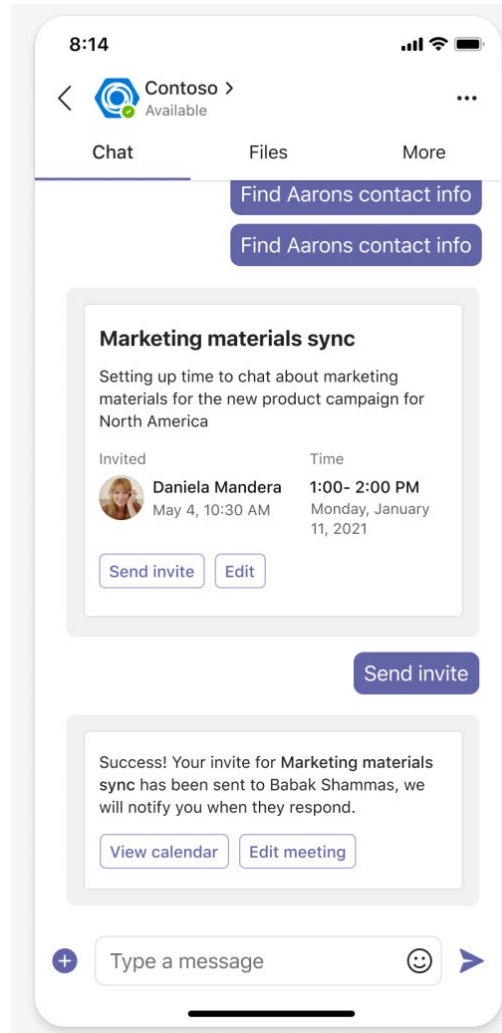


# Understanding Intent

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# Understanding Intent



**Refers to the goal the user has in mind**

**- Typing or Speaking a Question**

**Important factor in the chatbots ability to provide the right result**

**Even if the question is asked in a different way from the Knowledge Base**



# Summary



- Components of an AI Chatbot
- Natural Language Processing
- Machine Learning
- Knowledge Base
- Understanding Intent

Up Next:

Understand Applications of AI Based  
Chatbots

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