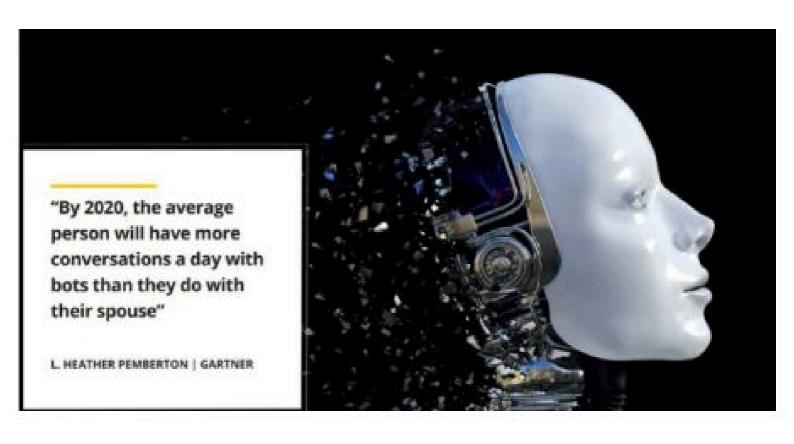




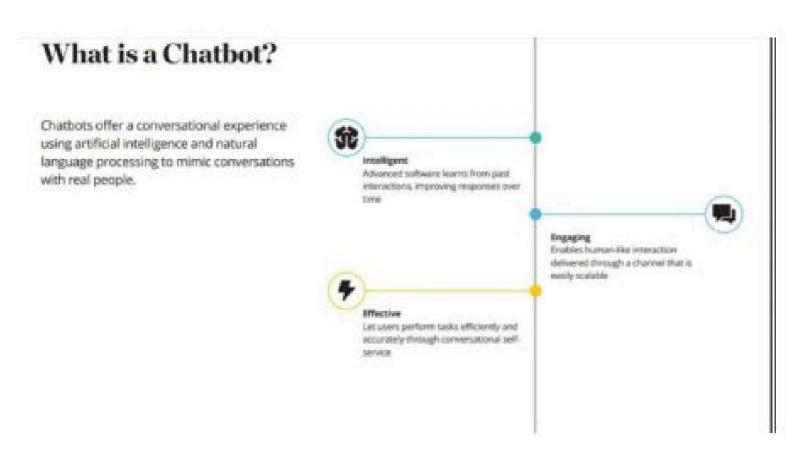
PRESENTED BY

- · S.Narmadha
- · A.Punitha
- · A.priyadharshini
- E. priyanka

Introduction Executive Summary. Dear Reader Chaldren are a clear manifestation that Artificial Prefigence (As is moving the hype, We see more and more business applications where charbots with self-learning capabilities. The Rise of the Chathot. 11 can interact with humans in a more rollural way. We can also observe growing sochistication and accuracy of Aliwhich makes chalbots more robust and suitable for a broader range of applications. At the same time, there are also still challenges to overcome improvements in natural language understanding or moving lowards a 3. Chathot Types 16 more flow based convenations instead of only "single shot" diviggues are steps that will require more time, investment, and research. in this point of view we wont to disjure the latest developments in the charbot Architecting a Chathot. 21 technology domain and provide you with example applications. We hope you enjoy reading our Chatbot Point of View. Our approach 24 On Behalf of Deloite Ai Team, Statute Bakhara Senior Manager Advanced Analytics & Al Lead









Market forces driving Chatbot opportunities

Developments at both the side of supply and demand drive the added value of Chathat technology.

Demand

increasing pressure on contact centers

High turnover rates, increased need for training and the necessity for reducing operating cost are putting pressure on the traditional contact center.

The Rise of the Chatbot

Supply

Technological advances in AI and NLP

Chalbots are going beyond keyword matching. Advancements in Natural Language Processing, processing speed, machine learning models and data availability have made this possible.

Rising demand for self-service

Contomers are idemanding self-service. No longer are they prepared to wait weeks, days, hours or even minutes for an employee to help them. They need their problem fixed and they need it food new!

Chatbot platforms maturing

As Chatbot technology becomes more popular, their development platforms become more mature. They come with easy to grasp drag and drop interfaces, allowing business users to build and manage Chatbots themselves.



Evolution of Conversational AI

Chathots are like apps that users interact with in a conversational way, through text or speech. As technology advances, Chathots are able to better understand both written and spoken text.

A Chattor may be as simple as basic pattern metching with a response, or it may be a sophisticated wearing of entificial intelligence techniques with complex conversational state tracking and integration into existing business services.

Distanced Charlests

- . Basic and scripted
- Looks for key physics & give pre-defined responses

Setant Reingelzers

- · Machine learning capabilities
- Greatly improved understanding of user intent, relationships between words are taken into account to extract meaning from a request.

Virtual Agents:

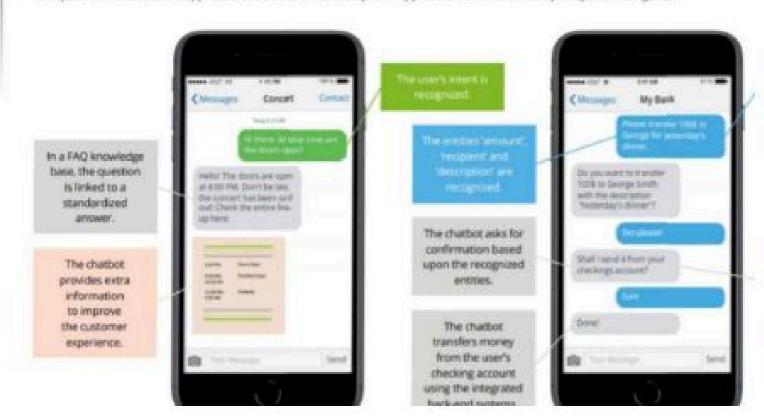
- Able to understand what a human is trying to achieve and can hold an end-to-end conversation
- Connects to other systems to leverage over data and insights
- . Learns and improves over time

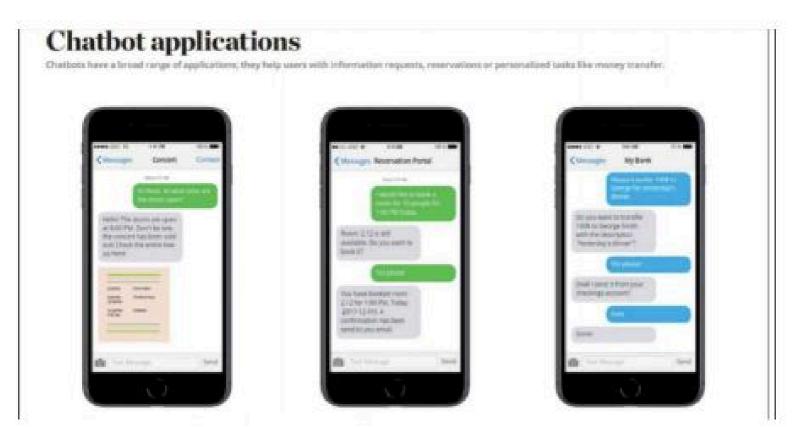
Human-like Advisor

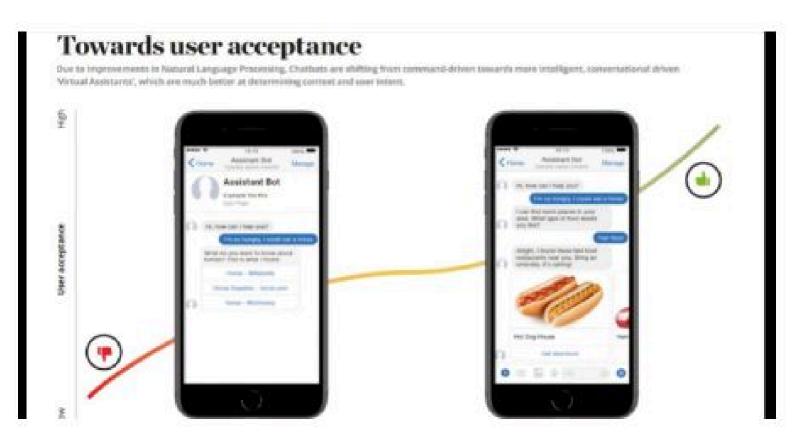
- General Al, also known as human-level Al or strong Al
- The type of Artificial Intelligence that can understand and reason its environment as a fruman would

Chatbots have different levels of intelligence...

There is no clear separation between Chatbots and Virtual agents, as they operate within a large range of complexity in both dialog and p the spectrum have valuable applications. Below are two examples of applications of different complexity and intelligence.







PROBLEMS

Hooray! Deep-learning based chat bots works well with Q&A scenario!

General problems

Inhuman: restricted for model training sets

Cannot "start" conversation

Cannot handle continuous conversational context and its changes

Korean-specific problems

Dynamic type-changes

Postpositions / conjunction (Josa hell)

