

enterprise conversational ai platform

500+

Global Enterprise Customers

1B+

Platform Conversations Quarterly 100+

Languages Supported \$150M+

Business Impact Created Yearly

Yellow Messenger Overview

YM's Global Client Footprint

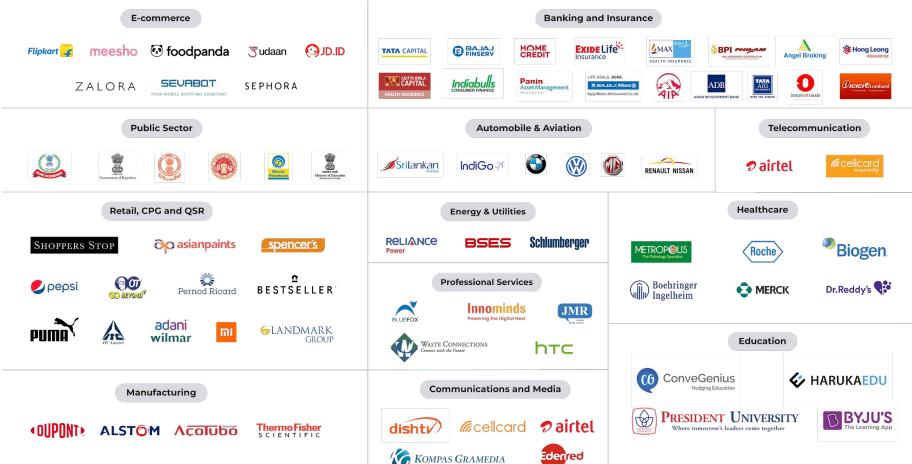








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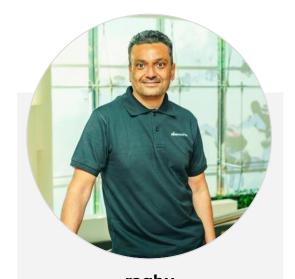








Management team +500 employees



raghu co-founder & ceo







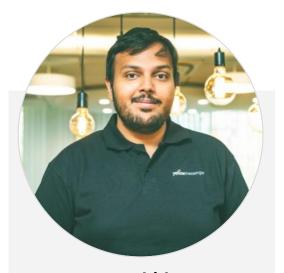


co-founder & cto









rashid co-founder & cpo

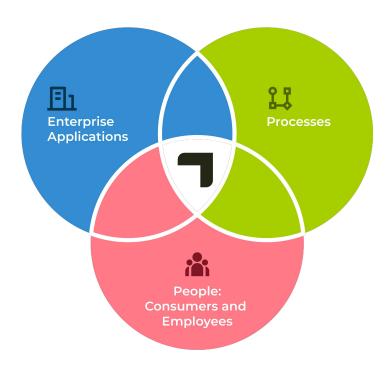




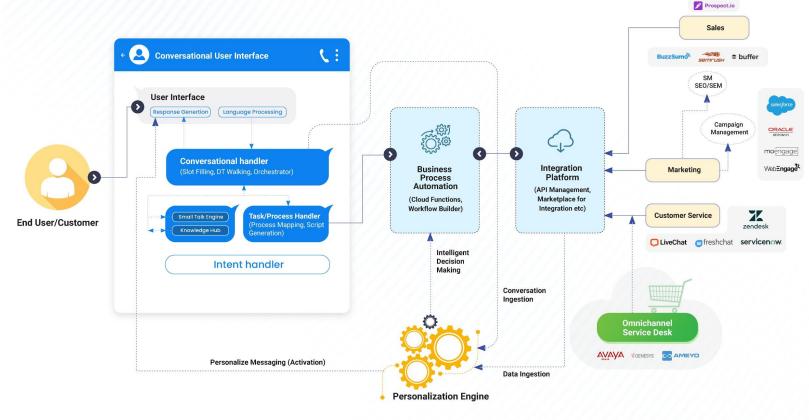


Yellow Messenger: offering & impact

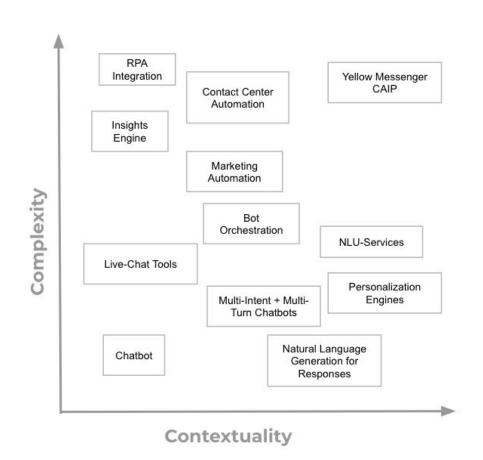
Yellow Messenger is **the world's leading conversational AI platform**, enabling enterprises, in a rapidly booming **digital economy**, to shift from being digitized to delivering cognitive experiences. Through our platform, we're **building AI-workers** for enterprises to self-serve - support, sales, marketing, commerce, HR and IT, on-demand.



Yellow Messenger's Conversational Al Platform



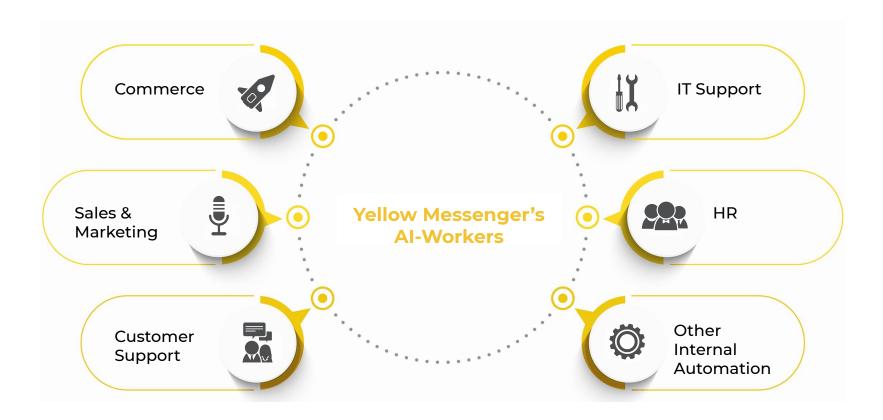
Our Capability: we're built to scale



What can Al-Workers do for your

Enterprise?

Al-workers for customers & employees



Popular use-cases



Use Case - Virtual Customer Assistant for Customer Support

Use Case	Technology Enablers	Example Customers	Future innovation
Virtual Customer Assistant for Customer Support	 Omnichannel Fault Tolerance Bot Personality Workflow Automation Sentiment, Canary (Vertical App) 	 Sephora Xiaomi Pepsico Mondelez Waste Connections 	 Data Modelling Advanced Personalisation Recommendations

Use Case - Virtual Sales & Marketing Assistant

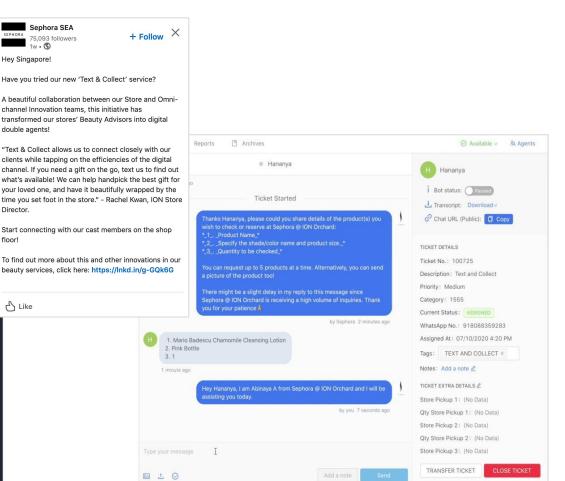
Use Case	Technology Enablers	Example Customers	Future innovation
Virtual Sales & Marketing Assistant	 2-way Ads, Banner Bots, Fb Ads To Whatsapp, Campaign Manager, Event Hub, Inventory, Canary (Vertical App) 	Bajaj FinservXiaomiMPLPuma	 User Profiling Improved UX To Design Multi-step Campaigns

Demo - Sephora "Text and Collect"

Sephora SEA

75.093 followers





Use Case - Employee Experience

Use Case	Technology Enablers	Example Customers	Future innovation
Virtual Enterprise Assistant for Employee Experience	 Channels Insights Engine Knowledge Management Orchestration Organisation's Taxonomy Fulfillment 	 Schlumberger Alstom Flipkart Roche Pharma Dr. Reddy's Labs Accenture 	 Deeper RPA Integration Improved Process Automation Custom Analytics And Apps

Use Case - Virtual Assistant over RPA

Use Case	Technology Enablers	Example Customers	Future innovation
Virtual Assistant over RPA (hyper-automation use cases)	 2-way RPA Integration Event Based Automation 	SchlumbergerUIPath marketplace	 Tighter integration between the process designer and RPA tools Product+GTM partnerships with key vendors

Use Case - Conversational Surveys

Use Case	Technology Enablers	Example Customers	Future innovation
Conversational Surveys	 Survey Builder & Scheduler Pre-built Templates Sentiment Analysis Topic Clustering, Event Based Multilingual Surveys 	 Flipkart Xiaomi TTi Global Consulting IHCL 	 More templates Push bots Improved developer experience

Use Case - Call Center Agent (B2C)

Use Case	Technology Enablers	Example Customers	Future innovation
Call Center Agent (B2C)	 Outbound Voice Campaigns Inbound Support Multi-modal Journey On-prem Deployments Integrations With CC Custom Models 	 Kotak life ICICI Bajaj Allianz Service Desk App 	 Proprietary STT and TTS models Deeper integration with service desk Improvements in voice bot training

Use Case - Voice Interactions with Consumer Electronic (CE)

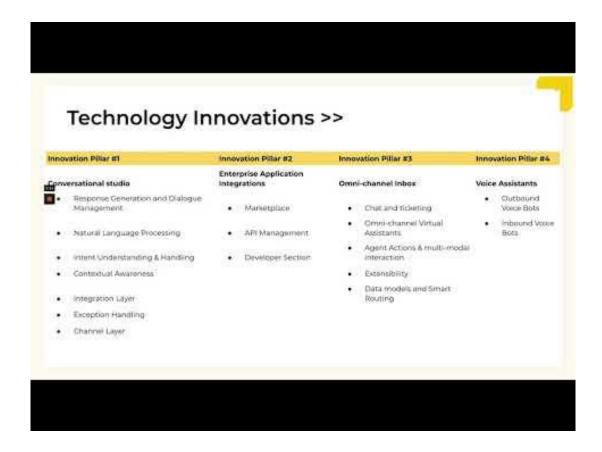
Use Case	Technology Enablers	Example Customers	Future innovation
Voice Interactions with Consumer Electronic (CE)	 Integration With Alexa/Google Assistant Custom Models 	Bajaj FinservAdaniElectricity	 Proprietary STT and TTS models

What are our primary pillars of innovations?

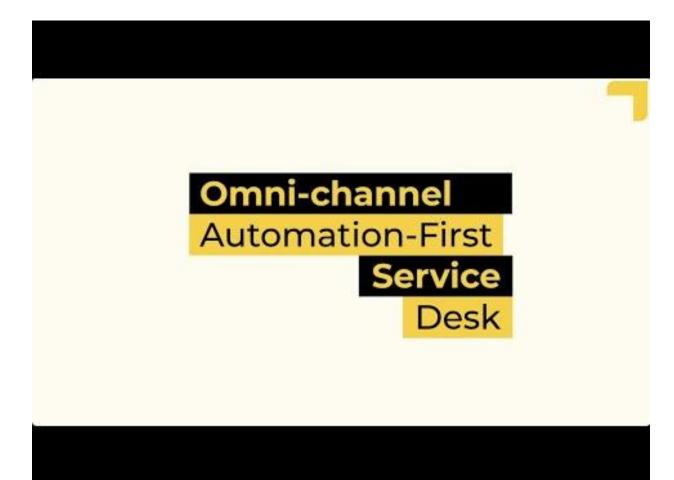
Technology Innovations >>

Innovation Pillar #1		Innovation Pillar #2	Innovation Pillar #3		Innovation Pillar #4	
Conv	ersational studio	Enterprise Application Integrations	Omni	-channel Inbox	Voice	Assistants
•	Response Generation and Dialogue Management	 Marketplace 	•	Chat and ticketing	•	Outbound Voice Bots
•	Natural Language Processing	 API Management 	•	Omni-channel Virtual Assistants	•	Inbound Voice Bots
•	Intent Understanding & Handling	Developer Section	•	Agent Actions & multi-modal interaction		
•	Contextual Awareness		•	Extensibility		
•	Integration Layer		•	Data models and Smart Routing		
•	Exception Handling					
•	Channel Layer					

Demo: Conversational Studio



Demo: Agent Actions

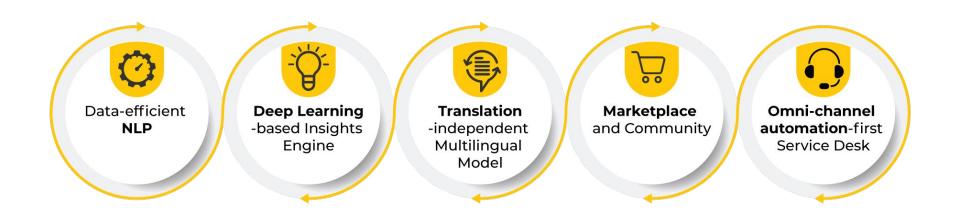


Demo: IVR Virtual assistant for ICICI



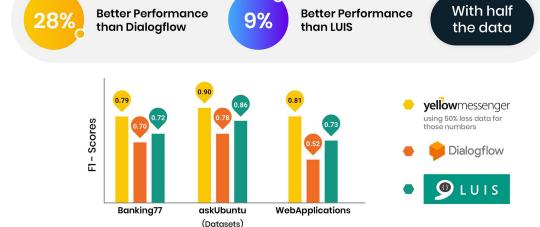
What are the most important technology differentiators we offer in the market?

Yellow Messenger's Differentiators



Data-efficient NLP Engine

- Few-shot models to provide high data-efficiency
- Better performance on lesser data than Industry giants
- Sentence Embeddings for higher accuracy
- 4. Self-Learning Loop



Methodology: f1-score calculated as Average of 10runs, random downsamplingfor 50% less data. Citations:

- 1. Efficient Intent Detection with Dual Sentance Encoders Casanueva et al. (2020)
- 2. Evaluation Natural Language Understanding Service for Conversational Question Answering Systems Braun et al. (2017)

Deep Learning based Insights Engine

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Kadra S. • 2nd
Digital Innovation Lead at Asian Development Bank
2mo • Edited •

Meet PIA - ADB conversational bot! One of the many exciting Al initiatives out of the sandbox.

Want to understand how to do business with ADB? ask the Procurement, Portfolio, and Financial Management Department intelligent assistant(PIA)

https://lnkd.in/g-e67Nk

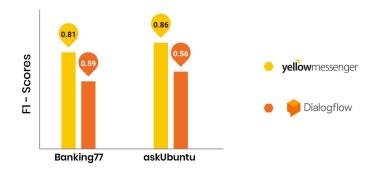
Thanks **Xiufeng Zhao**, **Rehan Kausar** and the PPFD team on working with us c this exciting initiative.

Great co-creating with Yellow Messenger Moeen Shariff Varun Vijayagha



Multilingual Models

Preliminary Multilingual Benchmarking (French)

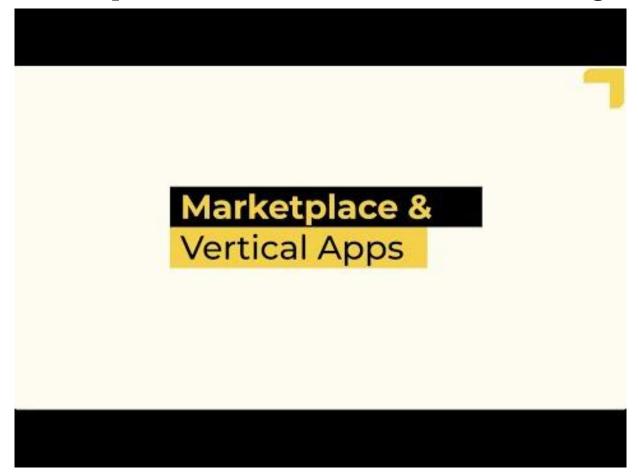


F1-Score calculated as average of 5 runs, training data random down sampled to 10 utterances/intent, manual translation to French Citations:

- 1. Efficient Intent Detection with Dual Sentance Encoders Casanueva et al. (2020)
- 2. Evaluation Natural Language Understanding Service for Conversational Question Answering Systems Braun et al. (2017)

- 1. Sentences instead of words for multilingual
- 2. Allowing bots to be trained in multiple languages without translation
- 3. Single Model for multiple languages
- Maintaining data-efficiency for multilingual bots as well

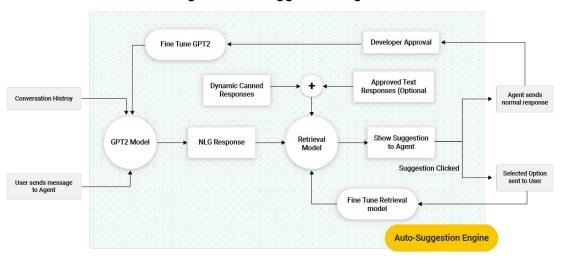
Al-marketplace and Community



Bringing Automation to Support Agents

- Machine learning service to provide suggestions to Support Agents
- Multi-turn NLG to provide text response suggestions
- Feedback Loop to fine-tune to brand's persona
- Agent Actions to implement automation workflows for Agents

Agent Auto-Suggestion Engine



Impact of Al-Workers: Client testimonials



Yellow Messenger's chatbot has helped lower

25,000 calls coming

into our call centres,

every month.



Eric Hansen

CIO - Waste Connections









Saurabh Sharma

Head - Digital Innovations, Bajaj Finserv









BLU virtual-assistant, powered by Yellow Messenger, has generated

double-digit million

dollars in new revenue with Al-powered

upselling and cross-selling.

Saurabh Sharma

Head - Digital Innovations, Bajaj Finserv









75%

chat closure on IndiGo's Dottie,

a self-service customer

chatbot.



Nitin Sethi

VP Digital IndiGo Airlines



Recognition gained: Analyst mentions

2021 Planning Guide for Customer Engagement

Report Published by: Gartner

Report Name: 2021 Planning Guide for Customer Engagement

Report Highlights:

Today's customer engagement architecture must evolve to support shifts in customer and organizational requirements. Application technical professionals responsible for customer engagement must focus on increasing the adoption of cloud-based technology, Al and the effectiveness of self-service.

A major planning challenge (or point of emphasis) is the overlap of capabilities, especially in intelligent routing options. You will find intelligent routing capabilities within customer engagement services from CCaaS vendors such as Talkdesk, NICE inContact and Genesys Cloud or from CRM vendors such as Microsoft Dynamics 365, Salesforce and Zendesk. You will also find intelligent routing capabilities at the heart of leading conversational platforms from vendors such as Kore.ai, OneReach.ai, Rulai, Yellow Messenger and Cognigy. While an incumbent vendor or platform will have a leg up when choosing your intelligent routing services, use the following evaluation points in your planning and investigation efforts:

- Integration and customization of unified agent desktop
- Integration with case management for cohesive agent tooling
- Native channel integration such as IVR and live and automated chat channels
- Self-service automation capabilities such as virtual agents and knowledge base management
- Digital channel integration capabilities (for example, webhooks, social and voice)
- Low-code or configuration-managed
- Natural language technology capabilities such as voice to text, text to voice, transcription and translation
- Solution portability

2021 Strategic Roadmap for Enterprise AI: Natural

Language Architecture

Gartner.

Report Published by: Gartner

Report Name: 2021 Strategic Roadmap for Enterprise AI: Natural Language Architecture

Report Highlights:

Enterprises must shift from tactical to strategic use of Natural language to ensure greater portability of language assets and models. To solve key business challenges and deliver natural-language-enabled enterprises, application leaders must see NL solutions as a collective, fundamental whole.

A major planning challenge (or point of emphasis) is the overlap of capabilities, especially in intelligent routing options. You will find intelligent routing capabilities within customer engagement services from CCaaS vendors such as Talkdesk, NICE inContact and Genesys Cloud or from CRM vendors such as Microsoft Dynamics 365, Salesforce and Zendesk. You will also find intelligent routing capabilities at the heart of leading conversational platforms from vendors such as Kore.ai, OneReach.ai, Rulai, Yellow Messenger and Cognigy. While an incumbent vendor or platform will have a leg up when choosing your intelligent routing services, use the following evaluation points in your planning and investigation efforts:

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Emerging Technologies: Tech Innovators in Conversational Al and Virtual Assistants

Report Published by: Gartner

Report Name: Emerging Technologies: Tech Innovators in Conversational AI and Virtual Assistants

Report Highlights:

Innovations in NLT, the proliferation of virtual assistants, and increasing usage of neural machine translation will transform business, social and human-machine interactions over the next two years. Product leaders can learn from the ways innovators are disrupting conversational Al space.

Defining Conversational AI and Conversational Agents

Conversational AI is an AI technology segment encompassing conversational agents and natural language technologies, such as NLP, NLU and NLG, that enable various conversational platforms and are used to build conversational agents.

Virtual assistants (VAs) are a conversational interface that uses semantic and machine learning (such as deep neural networks [DNNs], natural language processing, prediction models, recommendations and personalization) to assist people or automate tasks. VAs have better models of context and deeper integration with business applications and back-end systems vs. basic chatbots and can be deployed in several use cases, including virtual personal assistants, virtual customer assistants and virtual employee assistants.

Conversation AI agents include virtual assistants, advanced VAs (like a digital employee or a digital human) and chatbots (see more detailed definitions in the Evidence section).

Sample providers and products include Artificial Solutions; Amelia (an IPsoft company); Kore.ai; OneReach.ai; Baidu's Melody; Vellow Messenger, Kore.ai HR Support Virtual Assistant; Mica from Magic Leap; crystal from iGenius; Mya (conversational recruiting IA platform); Orbita (OrbitaASSIST and Orbita's Employee Health Manager); NEON from Samsung; and Soul Machines.

Emerging Technologies and Trends Impact Radar: Devices

Report Published by: Gartner

Report Name: Emerging Technologies and Trends Impact Radar: Devices

Report Highlights:

The rate of technology emergence and the pace of innovation are accelerating device diversity while shortening device lifetime. Product leaders in the device market must exploit emerging technologies to remain competitive, capitalize on market opportunities and differentiate their offering

Short-Range Impacts

Advanced Virtual Assistant (Al Conversational Agents)

Analysis by: Annette Jump

Description: Advanced virtual assistants (AVA), sometimes referred to as AI conversational agents, process human inputs to deliver predictions and decisions. They are powered by a combination of conversational user interface (CUI), natural language processing (NLP) and semantic and deep learning techniques (such as deep neural networks [DNNs], NLP, prediction models, decision support and personalization). In this manner, AVAs assist people and automate tasks. AVA are deployed in several use cases for different user types, including virtual personal assistants, virtual customer assistants, virtual employee assistants and others.

Sample Providers and Products:

Virtual enterprise assistants: IPsoft's Amelia, Artificial Solutions, OneReach.ai, Kore.al, Yellow Messenger

Virtual X assistants (VxA): Kore.ai HR Support Virtual Assistant, Mya Recruiting VA, Orbita (OrbitaASSIST, Employee Health Manager), Soul Machines, Neon from Samsung, Mica from Magic Leap

Emerging Technologies and Trends Impact Radar: 2021

Report Published by: Gartner

Report Name: Emerging Technologies and Trends Impact

Radar: 2021

Report Highlights:

The most impactful technologies and trends are quickly evolving and have the potential to disrupt and transform the market. Product leaders must explore critical emerging technologies now to remain competitive, capitalize on market opportunities and differentiate their offerings.

Short-Range Impacts

Advanced Virtual Assistants

Back to top

Analysis by: Annette Jump

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Emerging Technologies and Trends Impact Radar: Hyperautomation

Report Published by: Gartner

Report Name: Emerging Technologies and Trends Impact Radar: Hyperautomation

Report Highlights:

The idea of automating everything intrigues many organizations, but technologies are at differing maturity levels. Product leaders must decide which newer hyperautomation enabling technologies to offer, at what point in time they will be sufficiently mature and able to support clients.

Short-Range Impacts (One to Three Years)

Advanced Virtual Assistants (Al Conversational Agents)

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Sample Providers:

- Virtual enterprise assistants (VEAs): Artificial Solutions; IPsoft's Amelia; Kore.ai; OneReach.ai; Yellow Messenger from Bitonic Technology Labs.
- Virtual X assistants (VXAs): Kore.ai HR Support Virtual Assistant; Mica from Magic Leap; Mya (Conversational Al recruiting platform); NEON from Samsung; Orbita (OrbitaASSIST, Employee Health Manager); Soul Machines.

Emerging Technologies and Trends Impact Radar: Artificial Intelligence

Report Published by: Gartner

Report Name: Emerging Technologies and Trends Impact Radar: Artificial Intelligence

Report Highlights:

Al innovation — clustering around Al democratization, intelligent business insights, edge Al and transforming human-machine interactions — flourished in 2020. Product leaders must understand the timing and potential impact of Al technologies to achieve competitive advantage and differentiation

Advanced Virtual Assistants (Al Conversational Agents)

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Analysis by Annette Jump

Description: Advanced virtual assistants, sometimes referred to as Al conversational agents, process human inputs to execute tasks, deliver predictions and offer decisions. They are powered by a combination of CUI, NLP, and semantic and deep learning techniques (such as DNNs, prediction models, decision support and personalization). In this manner, advanced VAs assist people and automate tasks. Advanced VAs are deployed in several use cases for different user

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Gartner.

types, including virtual personal assistants (VPAs), virtual customer assistants, virtual employee assistants and others.

Sample Providers and/or Products:

Virtual enterprise assistants: Artificial Solutions; IPsoft's Amelia; Kore.ai; OneReach.a; Yellow Messenger Virtual assistants everywhere: Baidu's Melody; Kore.ai HR Support Virtual Assistant; Mica from Magic Leap; Mya (conversational recruiting IA platform); Orbita (OrbitaASSIST and Orbita's Employee Health Manager); Neon from Samsung; Soul Machines

Emerging Technology Horizon for Devices

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Improve Customer Self-Service and Self-Solve With Knowledge-Centered Service

Report Published by: Gartner

Report Name: Improve Customer Self-Service and Self-Solve With Knowledge-Centered Service

Report Highlights:

Customer self-service is valuable, but difficult to support well. This is a knowledge management problem that must be informed by analytics and enabled by search. Application technical professionals can leverage Knowledge-Centered Service to improve self-service and support.

If the question is worth answering or the problem is worth solving, it is worth having in the knowledge base.

Just as most contact agents have a script guiding them through what to say, they should also have a script for what to capture. The order of capture should always be "seek to understand before you seek to resolve." This approach captures the context of the issue and will also provide invaluable help in conducting a search for relevant and reusable knowledge. In an increasing number of Al-based systems, capturing the context will enable the system to search on the agent's behalf, without the need to formulate or execute a formal query. Platforms such as Yellow Messenger and ServiceNow currently offer this sort of capability. The context of the current session is also the most likely source of content to enrich and refine the solution retrieved. If no solution content exists, the resolution defined in the current interaction should, of course, be captured in as much detail as practical.

IDC Innovators: Conversational Al Software Platforms in Retail in India, 2019

Report Published by: IDC

Report Name: IDC Innovators: Conversational Al Software Platforms in Retail in India, 2019

Report Highlights:

IDC Innovators are emerging vendors with revenue <US\$100 million that have demonstrated either a groundbreaking business model or an innovative new technology, or both. This IDC Innovators study profiles three emerging vendors in conversational AI software platforms in retail in India: Yellow Messenger, NLPBots, and AskSid.ai.

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"The conversational AI solutions will have a notable impact not just on existing retail environments but also would drive the redesigning of shopping ecosystems. Retail companies would be adopting chatbots to bridge the gap between online and offline channels to improve customer experiences," said Swapnil Shende, senior market analyst.

