

# Conversational Al

Revolutionizing the Information Age

# About shaip



**Utsav Shah** Business Head - APAC & Europe Shaip

- Background
- When they started the Al journey
- How has the journey been so far?



Founded 2018



Clients 50+



**Employees** 160+



Offices USA, India, Singapore



Offerings **Data Licensing, Data Collection, Data Annotation** 

## About uniphore MM



Founded **2008** 



Total Funding \$620.9 M



Employees 800+



Offices
USA, India,
Spain, Singapore,
Israel, Japan



Offerings

Conversational AI & Automation for Contact Center, Emotional Intelligence for Sales



# Aravind Ganapathiraju VP, Applied AI - Uniphore

- Background
- When they started the AI journey
- How has the journey been so far?

How is Conversational Al different from other forms of Al



# How Conversational Al is different?

Al algorithms struggle since Human knowledge is vast & the language is complex

Voice search, unlike text-based search is complex

Accents

(e.g. British English - Scottish, Welsh, Northern Irish)

Pronunciation

(e.g. Pizza)



peet-zuh



pi-za

Emotions & Sentiment





(e.g. When someone does something wrong Sarcastic Tone - Very good; well done!)

How have organizations across the globe adopted Conversational AI?

### Adoption

#### Industries that are leveraging Conversational Al

- Contact centers
- Enterprises with focus on self service
- Enterprise AI with knowledge base





Voice-enabled Personal Assistants



Agent Assistance in Contact Centers

Role of Data in Conversational AI & the Challenges faced in Data Sourcing?

### Role of Data

Availability of accurate, precise, & useful data is a necessity to train a Al model; however





- Data that is inaccurately collected would make AI models inaccurate & unpredictable
- It takes 2-3 months of effort to unravel the causes of why a model was doggedly inaccurate
- Outcome: 20% poor quality data derailed the model.
   Removing the data improved model quality & accuracy by over 20%.

# Challenges faced in Data Sourcing

- Open Source Data
- Hire Interns
- Buy the Data

#### 1. Open Source Data

- a. Lot of Data
- b. Rarely fits the purpose
- c. Commercial usage restrictions
- d. Exaggerated Quality

#### 2. Let's hire interns & get data annotated or transcribed

- a. There is more to it than just having bodies
- b. Finding resource after few languages would be hard
- c. Need for project management
- d. Poor quality data
- e. Long delivery timeline

#### 3. We have the budget, let's go buy the data

- a. Expensive may not be high quality
- b. Buying data will also take time
- c. Multiple vendors Not all eggs in same basket

How good is good data and how do you quantify?



### Quantifying Good Data

Data is only as good as the model that uses it & Models are only as good as the data that they are build with.

Data quality can only be measured by the success of the Al Model. However, 3 qualities of good data that you can rely on are:







Accuracy



**Data Bias** 



Domain Coverage content, demography, data diversity



# Regulations & Govt policies in Conversational Al

### Overcoming Regulatory Roadblocks

- **Data Privacy** hinders AI model development.
- We work on processes & tools that allow for data curation in secure environments
- Our partners also adhere to high standards of data privacy
- Our modeling approaches such as semi supervised & federated learning - reduce the impact of restrictions from data privacy



Tell us more about Shaip & Uniphore's Collaboration



- Uniphore is focused on high-quality AI data
- Most of the data comes from explicitly curated corpora (takes lot of time & expense)
- Partner with someone who has the experience and can be trusted

 We liked samples from Shaip's Data catalog, after which the partnership was expanded



- We acquired OTS datasets for ASR modeling (non-Indian languages, Arabic & Tagalog)
- Several transcription projects in Hindi & English.
   Some of the Key project challenges:
  - Real-world data from contact centers
  - Specific guidelines set by Uniphore
  - Domain specific languages
  - Complex project with tight timelines.
- Overcoming key project challenges
  - Regular Quality checks & Feedback loops
  - Streamlined process to automate future delivery

How Uniphore & Shaip are a Natural Fit?





- Uniphore is an Ideal customer as they build great Conversational Al solutions
- They understood the essence & effort it takes to create & annotate high-quality data; whereas
- Shaip provides high-quality data (data collection platform, processes & global workforce)
- Ingredients for a natural partnership. uniphore **MM**





Q/A



### Thank You



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