2024

Tai-Chatbot White Paper

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4/1/2024

Introduction

Over 200,000 years, there have been 2 Stages of Evolution of human kind.

One: people (like sheep) freely roaming the planet we now call Earth.

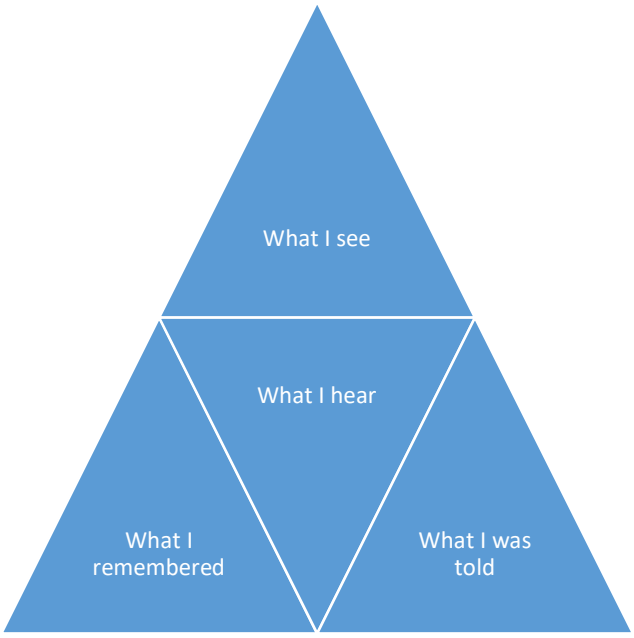
Two: a small number of people (shepherd) emerge as the leaders of the pack.

What we feel but yet cannot achieve is all people are able to live up to their aspiration and able to access the common data set that is representation of “True Reality” of the world.

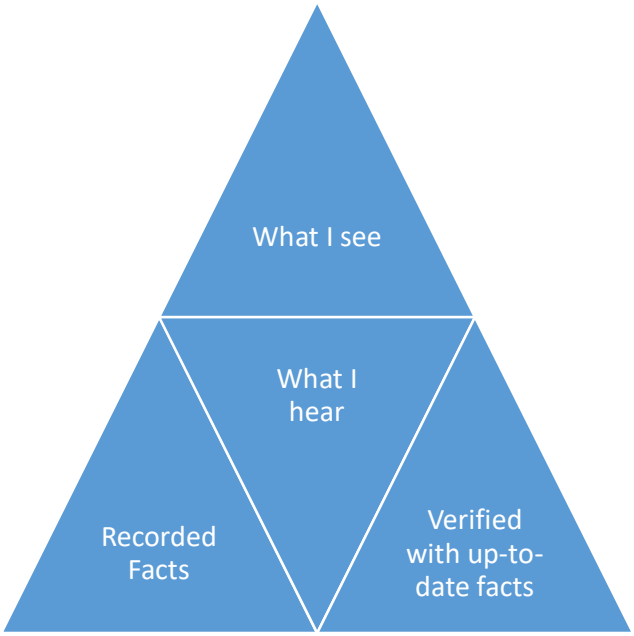
At each level, the individual’s capacity can be expanded 100 fold. The combine creativity and productivity allow the forward development of ideas, methods and philosophy of people.

Our “tai-chatbot” company is to facilitate the transformation from level 2 to level 3 of human existence. True emancipation is when we can see clearly and able to decide for ourselves on how and what to do so to allow our potential to be realized.

Traditionally we build our world view with our own experience, advice from mentors, education, and perhaps religion.



The new model replace our “fussy memory” to “recorded reality”. “What I was told” verified with latest known facts. By doing so we reduce misinformation which we use to navigate our world and make decisions. Too often we dig our own grave due to misunderstanding or put it in another way, due to ignorance and naivety, we set ourselves up to fail in the future. With the new model, individuals can avoid known pitfalls regardless of level of education, number of books read or lack of world travelling experience. This will not slow human activities but enhance our level of knowledge so people can make better decisions for themselves.



No need to be reborn, no need to abundant what you already know, it is up to the individual to "believe" or "not believe". The cycle of our activities based on Clarity, Judgement, Decision, Action and Outcome. If we enhance our memory with recorded facts and allow the reshaping of our pre-set world views, we can improve our clarity by many folds. We are not proposing to use machines to make decisions for us, neither to pretend to know all the truth of the world. Our aim is to improve clarity and reduce misinformation for the individual, free our mind from prejudice and pre-set judgements.

Artificial Intelligence is not to replace human. Artificial intelligence might be the legacy of human kind but is not "perfect". The inherited flaw is the misconception that "Logic can explain and represent everything" "Cause and effect is the law for everything" that is no difference to saying "My God is the truth, and the only truth". One can believe in anything but reality is more than what our brain can comprehend.

AI Chabot Design

The suggestive architecture illustrated below allows the Chatbots to be implemented in stages.

Stage 1 – simple conversation with a user

Stage 2 – simple conversation with fact finding

Stage 3 – simple conversation with verification of known use case

Stage 4 – simple conversation with machine learning

Stages	Key functions	Key Technical Challenges	Data Model	Additional Notes
1	FAQ Chatbots	Filter and prepare Answers from Search engine?	Decision Tree Based Chatbots (DTBC)	
1	Provide Sentiment Analysis and deliver a quote	Identify the user's ethnicity	DTBC	

2	Tour Guide Location Guide	API to search engines or GPS	Natural Language Processing Based Chatbots (NLPBC)	Search in real time
3	Earth is the centre of everything	Check knowledge base for how real this statement is.	NLPBC	Search in real time
3	Best Pizza in Gordon	Verify the truth of this statement	NLPBC	Search in real time
4	Identify the areas of interest of the user	Individual Goals, short comings, characters & traits of the individual	NLPBC	
4	Conversation with human to build up a profile for the user	Store the various data efficiently	DTBC & NLPBC (Hybrid model)	

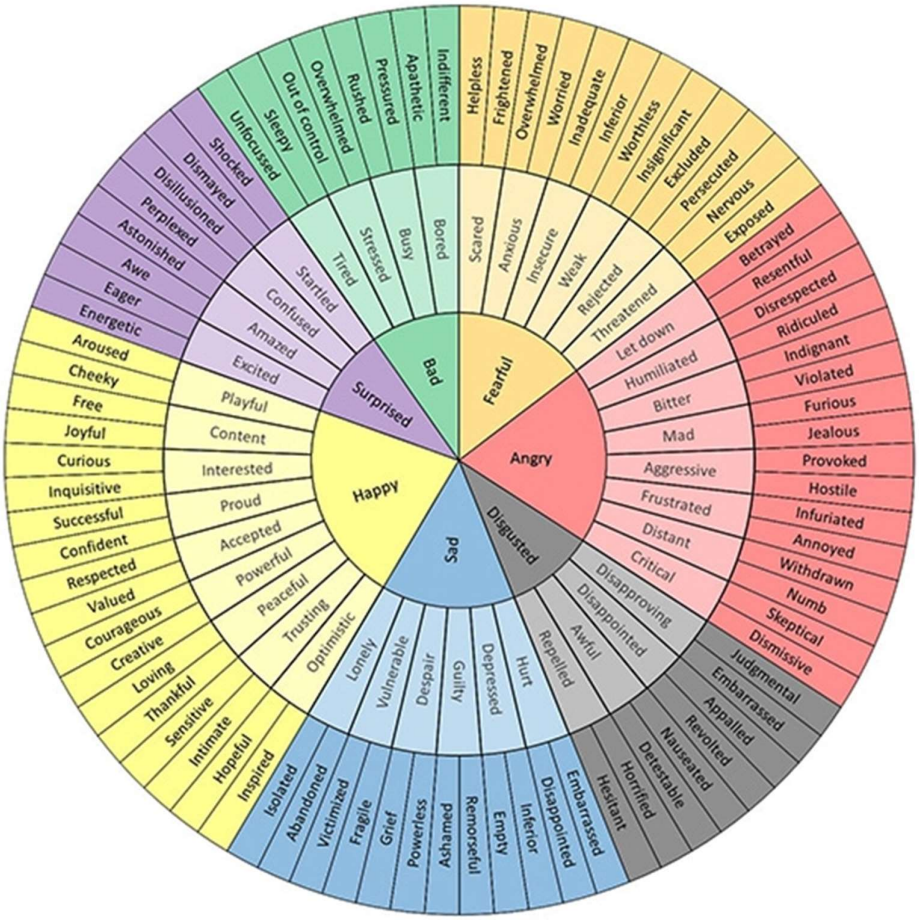
AI Chatbots Evolution PATHs

Chatbot can learn about the user and store everything learned locally. By choice if users are willing to participate, the local user's knowledge may be uploaded to a knowledge database and share between users. Instead of building a comprehensive human wide knowledge base, it is possible to merge knowledge of individuals or group of individuals, even knowledge of specialists. The shared data represents the different perspectives of any subject matter.

User A thinks all Indians are bad, because he met 5 Indians and none of them left him any positive impression. User B thinks Indians are great, User B was working for an Indian Company and all colleagues treated him respectfully and are kind to him every day. User C thinks some Indians are good but not all of them are, in general, Indians are just like people in any other country, have "good" ones and "bad" ones. The Chatbot will advise the Users with a balanced view rather than a specific biased view.

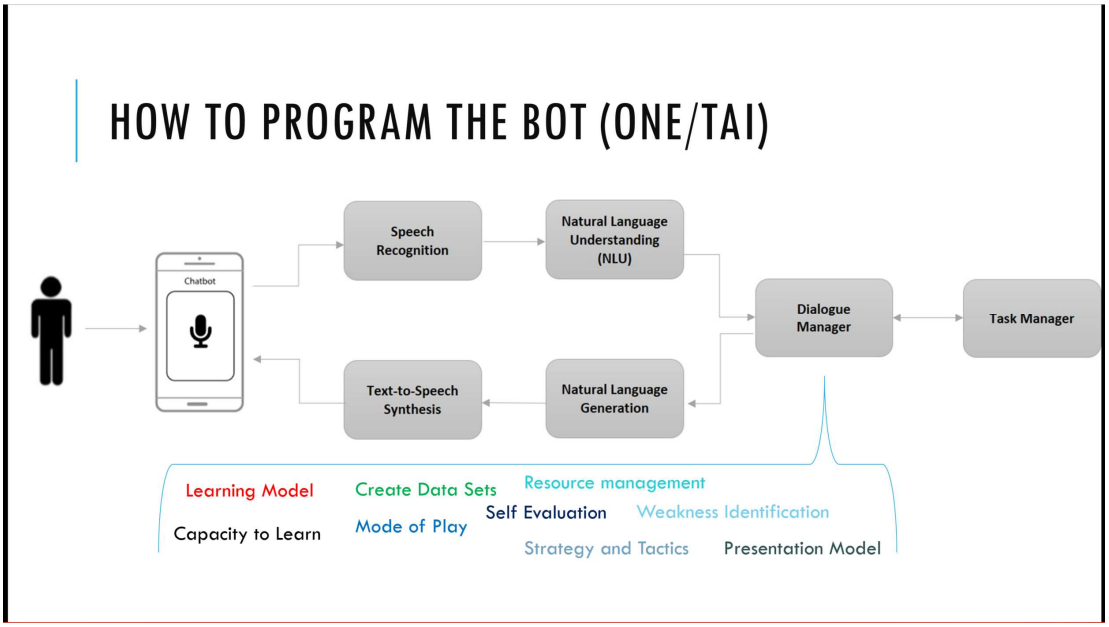
Big institutions may have the data for demographic of a nation, this data can be made available to Chatbot via hooks (a software integrate to acquire such data) to present a view on distribution of age, popular activities, religion or average income etc. So by this information, the Chatbot may be able to advice the User's social standing in relation to his community.

The Chatbot can act as a standard manual to advice the User on his finance, health and or common sense in relation to his contemporaries. Acting as a cushion to balance excessive swing of moods and emotions. Sadness is part of life but mental illness is not something we can ignore.



Individual Bots can link together as if a team existed to provide assisted intelligence, by hooking into institution Database, the Bot can turn itself into a Subject Matter Expert (SME). The goal for the Bot is not to sell data to institutions or for business. It is more for the mental stability of the individual. The main objective of the Bot is to provide clarity in terms of information to allow the User to enhance hearing and seeing. Also provide a filter and a reminder of the “known truth” to the individual.

Team Assisted Intelligent-CHATBOT



Areas of Interests				Data Acquisition
Personal Finance	Long/Medium/Short Term goals	Monitoring of Progress	Provide Key Advices when choosing on what to do	NLP & ML
Personal Relationships	Do's and Don'ts	Monitoring Progress	Provide Key advice at different stage of the "love cycle" in conjunction with mental stability	NLP & ML
Mental/Physical Health	Regular Sentiment Analysis, Heart Rate Check	Monitor & Record Daily activities	Reminder of check ups or identified any abnormally; manage excessive swing of emotions (sadness, greed, ambition …)	Smart Watch
Personal Goal	Reduce debt, increase savings, or complete an assignment	Monitoring Progress	Provide Key advice at different stage of the goal chasing	NLP & ML
Personal Tool sets	Block Phone Calls, help focus with headspace content, play meditation music etc			APPs

Team Assisted Intelligent-CHATBOT Machine Learning

Human learning vs machine learning

Human	Machine
Repetition	One time
Key words	Key words
Capacity to remember (eg, 5000 words)	5 million words
Identify meaning and purpose	Machine specific model A
Pattern recognition (eye)	Pattern recognition (camera) Needs to build up a model
Brain	Natural Language Processing (with ability to detect accent)
Identify scenarios & Role play	Machine specific model B
Emotion driven	Can simulate but not really

Machine Learning from conversation

As we talk to a stranger, we often use dialogue and not start with any ridiculous or offensive words. Same with the Chatbot, we can start with a friendly dialogue. Asking small questions or make a statement about current affairs or hot topic of the day. Even talk about the weather can be a good start. Chatbot is able to understand and record what you have said, also can respond in it's own way to encourage you or provide an alternative point of view. Even give you a famous quote from Mark Twain "Truth is stranger than fiction"

Machine Learning from reading

The Chatbot is not always talking, so in its leisure, it can read a book. This reading ability needs to be programed to capture the essence of the book including political tendencies, positive or negative tone, guess some of the author's intend of writing the book etc. After reading the book, Chatbot will distil the content to a knowledge base to be treated as a perspective from that author at a specific time orientation. All kind of books are out there, so some kind of classification and treatment is necessary before and after reading the document. Contrarian view of the same topic is always interesting to be read by the Chatbot.

Machine Learning from hearing (sound other than conversation)

Chatbot can also leverage on the audio capacity of the phone, identify noisy traffic conditions. Advice on unusual or dangerous circumstances like very high sound intensity.

Machine Learning from looking at a picture

Like the Flower Identification APP, Chatbot can fetch the photo user took and can perform related analysis. For example, user took a selfie, Chatbot can perform general outlook on health, suggestive styling or trimming of hair.

Machine Learning from "watching" a Movie

The ultimate learning experience is to "watch" a movie and learn from that. The cumulative learning ability eg, Learning from reading (dialogue), Learning from hearing location sound and Learning from looking at a picture provide the bases for a truly interactive learning capacity. The APP does not exist yet but it can be build. Any movie can be break down to incidental scenes, the different layers of sound used within a scene, including location sound, dialogue, sound effects (FX), Foley sound, and musical score. The Chatbot comes alive as a true companion, watch the world with the User.