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PERSONAL ASSISTANCE BASED ON ARTIFICIAL INTELLIGENCE USING COGNITIVE SERVICES

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Abstract: In today's plot of a play, an ideal "intelligent" machine is a flexible rational agent that perceives its environment and takes actions that maximize its chance of success at some goal. Colloquially, the term "artificial intelligence" is applied when a machine mimics "cognitive" functions that humans associate with other human minds, such as "learning" and "problem solving". The purpose of this project is to distill actionable information from images, automatically moderate text, augmented with human review tools, personalize experiences with emotion recognition and analyze images, speech, and language. The Application we propose empowers users to harness the intelligence through deep learning. Colloquially, the term "artificial intelligence" is applied when a machine mimics "cognitive" functions that humans associate with other human minds, such as "learning" and "problem solving". AI research is divided into subfields that focus on specific problems or on specific approaches or on the use of a particular tool or towards satisfying particular application.

Keywords: Artificial intelligence, knowledge, planning, learning, natural language processing

I.INTRODUCTION

Artificial intelligence (AI) is intelligence exhibited by machines. In computer science, the field of AI research defines itself as the study of intelligent agents. Any device that perceives its environment and takes actions that maximize its chance of success at some goal. . Capabilities currently classified as AI include successfully understanding human speech, competing at a high level in strategic game systems, intelligent routing in content delivery networks, and interpreting complex data. The central problems (or goals) of AI research include reasoning, knowledge, planning, learning, natural language processing (communication), perception and the ability to move and manipulate objects. But such advantages do not come free of cost. The service providers provide their service to their customers on pay and use basis.

II. EXISTING SYSTEM

The existing methodology uses a natural language user interface to answer questions, make recommendations, and perform actions by delegating requests to a set of Web services. However, there is no common platform for effective cognitive services. Therefore it bridges the gap between user's and their interaction with the bot. Even commands that might not necessarily require a Web connection to complete will be unavailable if system is offline.

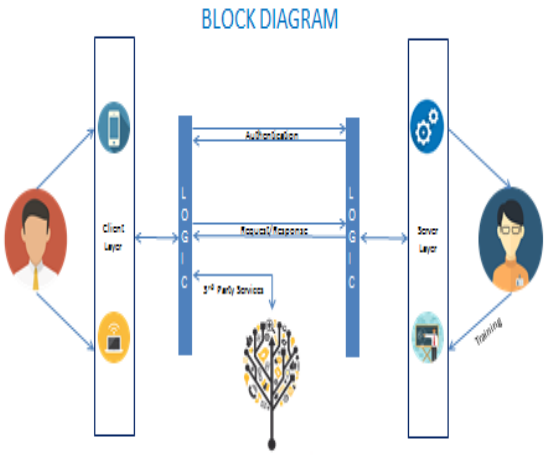
III. PROPOSED SYSTEM

Our bot is a built-in, voice-controlled personal assistant available for the users. The idea is that you talk to it as you would a friend and it aims to help you get things done, whether that be setting an alarm or analyzing your views. It exemplifies a new frontier in personal computing and artificial intelligence(AI). The project is to create a bot(personalized/business) to interact with the user's based on their instinct. The bot act's as a personal assistance with a touch of intelligence and add many benefits to the proposed system.The idea is thatyou talk to it as you would a friend and it aims to help you get things done, whether that be setting an alarm or analyzing your views.

IV. PROPOSED SYSTEM ARCHITECTURE AND WORKING

The system architecture given below is for the interaction between the client i.e. the users and the server and how they make use of services to respond and react to the request made by the user. The user sends a request through the client layer and gets authenticated to use the services provided by the bot. Once the user is authenticated he can use the services provided by the bot, requesting the server to

provide him with the services or the analysis which the user expects.



The server, accepts the request and send an response to the user. Here server uses third party services such as the cognitive services to respond to the user based on their instincts. Here training is done extensively by the server side based on the feedback and the response of the user. Various modules are incorporated into the bot such as Speech to Text, Text Processing, Text to Speech, Emotion Analysis, Sentiment Analysis.

V.CONCLUSION

In this paper , a comprehensive analysis of disadvantages of the existing has been done and a more efficient system has been proposed by introducing the cognitive services. Also , the analysis of performance and efficiency of the proposed system is done.The proposed methodology uses a natural language user interface to answer questions, make recommendations, and perform actions by delegating requests to a set of cognitive services. The proposed system is a common platform for effective cognitive services which adds a huge advantage compared to the existing systems.

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