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# Man-Made Intelligence Buddy: Your Own Right Hand

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**Abstract:** *In the era of technology the fusion of intelligence (AI), with personal devices has brought about a fresh era of interaction between humans and computers. Personal AI assistants are now widely used, offering users services ranging from task organization to sophisticated decision-making aid. This article delves into the development features, ethical considerations and future possibilities of AI powered assistants considering them as companions, in our everyday lives.*

**Keywords:** *Artificial intelligence; Assistant, interaction; Between humans and computers processing language, machine learning, intelligence buddy*

## I. INTRODUCTION

In our paced era where technology seamlessly integrates into our daily routines the idea of “A man made intelligence buddy” represents a significant advancement, in human computer interaction. This term highlights how artificial intelligence (AI) is not just a tool but a personalized companion that adapts to needs a virtual support system that navigates the complexities of modern life alongside its human counterpart. The concept of “A man made intelligence buddy” signifies a shift from viewing AI as programs to entities capable of learning, reasoning, and engaging with humans in meaningful ways. Unlike forms of AI focused on tasks these intelligent companions are designed to anticipate needs provide valuable insights and engage in conversations resembling human, to human interactions user-to-machine and machine-to-user interaction [1]. The impact of AI buddies goes beyond convenience; they have the potential to transform aspects of our daily routines. Whether its organizing schedules, offering tailored recommendations or enhancing productivity both personally and professionally AI companions offer a level of support and efficiency. In the realm of technology, the emergence of artificial intelligence carries implications far beyond being merely a field of science. It permeates into cultural and societal realms as well; redefining our notions of intelligence and cognitive processes in machines that lead to changes in how we function within modern society. The origin of AI dates to the mid-20th century when visionaries in this sphere, like Alan Turing, paved the way for machine intelligence on a theoretical level. Subsequently, AI has undergone substantial changes propelled by developments in computer capabilities together with data and algorithms availability. At present, AI finds application in various spheres of human existence from mobile virtual assistants to smart algorithms running autonomous cars or diagnostics in medicine. From its inception to present day innovations, artificial intelligence has indeed been pivotal to much of this technological evolution. The term ‘artificial intelligence’ can loosely be defined as the idea of creating intellectual entities (commonly referred to as artificially intelligent) that mirror human intellect. Machine learning as a branch of artificial intelligence seeks to emulate human cognitive processes like learning, reasoning, problem-solving or decision-making through algorithms. This emulation is made possible by vast computational power which allows machines to process large amounts of data and perform tasks which would otherwise necessitate human intervention.

## II. PROBLEM STATEMENT

Today, existing personal productivity tools do not have the ability to fit organically into your everyday routine in a way that adjusts to what you like and what you need as time goes on. In many cases, people struggle with juggling complicated timetables, staying informed about what really matters to them, and receiving help that is preemptive and meant just for their specific situation. People are increasingly feeling the need for a personal AI buddy: smart enough to understand you, adaptable to much be what you need, when necessary, it (in terms of work or play), proactive enough to take care of enhancing your productivity (while also not forgetting decision-making or your general well-being). In essence: we lack today’s personal productivity tools because they do not adjust according to changing situations.

### III. AIM

The Aim of Man-made intelligence buddy: Your Own Right Hand is to take control of our desktop completely by voice commands, which will save time while also ensuring that users have a more intuitive and personalized computing experience.

### IV. OBJECTIVES

- 1) The Man-made intelligence buddy: Your Own Right Hand should be able to handle different tasks that the user assigns.
- 2) It should possess a rich base of information including but not limited to news updates, weather forecasts, responses to user queries etc.
- 3) This in turn means that any question raised by the user should be answered with ease due to the availability of relevant data.
- 4) The Man-made intelligence buddy: Your Own Right Hand must possess the ability to comprehend natural language inputs and respond to users in a conversational manner this fosters effective interaction.
- 5) The Man-made intelligence buddy: Your Own Right Hand should also have quick reflexes, ensuring prompt responses that ultimately save the user's time. Moreover, multitasking is another skill the personal assistant should excel at.
- 6) Handling multiple tasks simultaneously is pivotal. Additionally, when encountering problematic commands from the user, The Man-made intelligence buddy: Your Own Right Hand must seek clarification and provide accurate information in return.
- 7) Develop capabilities within the AI that make it possible to predict user requirements, propose courses of action, and provide memory aids that are context-based and rely on historical information.

### V. LITERATURE SURVEY

- 1) Alan Turing's primary paper introduced the concept of machine intelligence and considered the Turing test as a quantity of a machine's capability to show smart behavior. This foundational work laid the foundation for the future development of artificial intelligence [2].
- 2) This proposal marked the official beginning of artificial intelligence research. He outlined a vision for developing machines that could simulate aspects of intelligence, laying the foundation for subsequent advances in artificial intelligence technology [3].
- 3) This paper traces the growth of personal assistants, from early mechanical devices to modern AI-driven systems. It highlights key milestones and technological changes that have influenced the development of personal assistants [4].
- 4) Sutherland's concept of the "ultimate display" laid the foundation for augmented reality (AR). His ideas about creating immersive digital environments are crucial to understanding how AR technology can improve the functionality of personal assistants.
- 5) The WUW system equate a symbolic improvement in the field of AR, integrating wearable sensors to provide contextual information. This technology illustrates how AR can be used to create more intuitive and interactive personal assistant experiences [5].
- 6) This work explores the role of robots as social agents, focusing on their ability to interact with humans in meaningful ways. It provides insights into how personal AI assistants can act as social companions and support systems.
- 7) Amazon's Alexa documentation provides an in-depth look at the capabilities and architecture of one of the leading virtual assistants. It emphasizes the integration of natural language processing and speech recognition technologies with modern AI assistants.
- 8) This textbook covers the principles of human-computer interaction that are essential to developing effective personal assistants. It covers user interface design, usability, and human-computer interaction that are essential to developing intuitive Artificial Intelligence systems.
- 9) This paper explores various applications of AI assistants in daily life, including home automation, task management, and health monitoring. It discusses how these applications can improve users' productivity and convenience.
- 10) McAfee examine how advanced technologies, including AI, affect work and human capabilities. They argue that AI can enhance human performance and create new opportunities for growth and innovation.
- 11) Comprehensive analysis of privacy issues is relevant to AI systems that process personal data. She emphasizes the need for strong data protection measures and ethical considerations when designing personal assistants.
- 12) This study examines user perceptions of confidentiality rules such as the Regular Results Guarding Supervision. It highlights the challenges of maintaining user trust and transparency in AI systems.
- 13) The report delves into areas where AI and robotics are expected to make significant advances.

## VI. METHODOLOGY

### A. Software Tools

- Visual Studio Code
- Python
- Wo mic
- Operating system – Windows 8.1 or uppe

### B. Hardware Tools

- A Monitor or Laptop
- RAM should be a minimum of 4 GB
- ROM should be a minimum of 8 GB
- Internet Connectivity

### C. A three-layer Hybrid Model

- Interaction Layer: Voice/text input via LLMs (GPT-4o).
- Cognitive Layer: RL-driven decision engine for task automation.
- Data Layer: FL-processed user data stored locally

### D. Prototype Development

- Tools: Python (PyTorch), TensorFlow Federated, and AWS for scalability.
- User Profiling: Collects data via wearables, calendars, and app usage.

### E. Evaluation Metrics

- Task Efficiency: Time saved on scheduling, research, and communications.
- User Trust: Surveys on perceived reliability (Likert scale).
- Error Rate: Incorrect anticipatory actions (e.g., wrong email drafts).

## VII. WORKING PROCESS

The workflow of an AI personal assistant involves multiple steps, including understanding user input, processing the request, accessing relevant information, and providing an appropriate response.

- 1) Welcome introduction interface.
- 2) Use facial recognition to match faces.
- 3) Enter password.
- 4) Input the user's command through voice.
- 5) Convert audio to text.
- 6) NLU includes tasks such as entity recognition, sentiment analysis, and intent classification.
- 7) Based on the extracted information, the AI assistant determines the user intent, or what action the user wants to perform.
- 8) This may include accessing an inside learning lowly, external API, or database to gather the required information.

## VIII. FEATURES

- 1) Welcome Interface.
- 2) Face Protection Security.
- 3) Password security.
- 4) Without Speaking the "Wake Up" command does not enter the main interface.
- 5) Greet-me (Wishing Function).
- 6) Play Music through voice command.
- 7) Open any app through voice command.
- 8) Close any app through voice command.
- 9) Take Screenshots through voice command.



- 10) Volume up through voice command.
- 11) Volume down through voice command.
- 12) Tell the real time.
- 13) Auto-translate Hindi to English when given a command through voice.
- 14) Google search through voice command.
- 15) YouTube search through voice command.
- 16) Wikipedia search command through voice command.
- 17) Change your password for the AI personal assistant.
- 18) Remember that function.
- 19) Check the Internet Speed feature.
- 20) PDF read-through voice command.
- 21) Provide data through databases otherwise online resources.
- 22) Shut down our laptop through voice commands.
- 23) Restart our laptop through voice command.
- 24) Provide a Graphical User Interface to make the best interaction with the user.
- 25) Many Voices Added.

## IX. USED LIBRARIES

Some Libraries used in AI personal assistants as pyttsx3, getpass, os, Wikipedia, webbrowser, pyautogui, Smtplib, pywhatkit, requests, g4f, pyPDF2, pyaudio, PyQt5, torch, keyboard, colorama, cv2, etc.

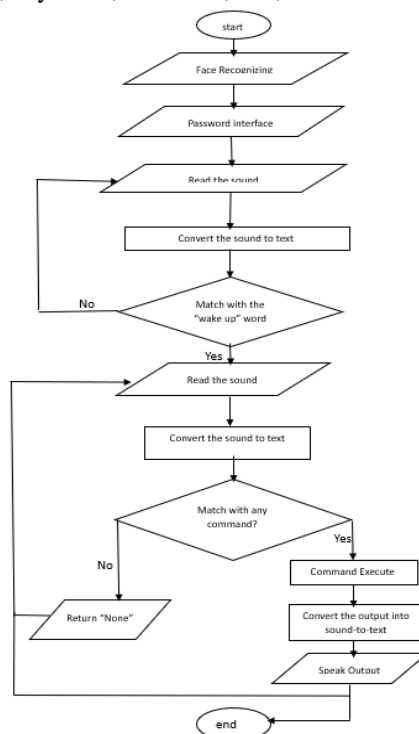


Fig -1: Dataflow Figure

## X. CONCLUSION

Man-made intelligence buddy: Your Own Right Hand represents a significant advancement in human-computer interaction, providing users with inherent and suitable ways to admittance information, perform tasks, and manage daily movement. These assistants use a variety of techniques to understand user input, process requests, and generate relevant responses. Through continuous learning and conversion, Man-made intelligence buddy: Your Own Right Hand seeks to improve its accuracy, efficiency, and user experience over time.



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