

Research Synopsis for V.I.C.T.O.R. (Virtual Intelligence Created for Trained and Observed Response)

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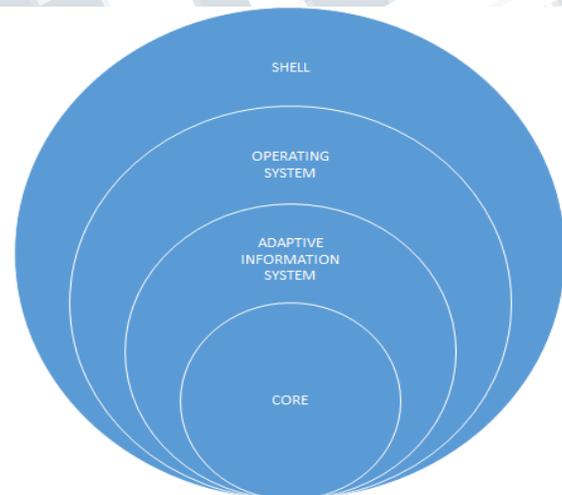
Abstract:- The world is growing and so the technology around us is becoming better in order to cope-up with our needs so that we can run our days better and can do efficient progress in order to bring up the best for ourselves. But the huge demand for an assistant is a need for everyone who can do things and can suggest decisions suited best for its user and can relate and process things in real time with fruitful results. Moreover, the need for an intelligence that can help us in developing new platforms for development and carrying out a massive amount of work is felt commonly by many individuals. So in order to come over with this problem and to take the technology to the very next level, many attempts have been made to develop a smart application and assistants which have been appreciated in the recent times. But we are taking the technology to another level by developing an AI that can fulfill the task of Assistant, Security System, Butler and can respond according to the user's thoughts with the fulfillment of all the operating system features.

I. INTRODUCTION

V.I.C.T.O.R. (VIRTUAL INTELLIGENCE CREATED for TRAINED and OBSERVED RESPONSE) is a highly advanced computerized AI that will fulfill every need of the user related to technology. Designed with fast efficiency and real-time response with high processing voice translations, V.I.C.T.O.R. is an operating system that can multitask, schedule, operate and perform in order to bring the maximum comfort level in the work of its user. With an advance interface of speech to speech communication, V.I.C.T.O.R. can be essential to use every technology around and the operating system works. Depending upon the prior needs of the user, the AI used in development can communicate in a natural language of the user and can help in performing user's tasks in order to maintain the level of ease in the work. With advancement in consciousness and balanced response, this can help us in order to perform everyday tasks without letting anything miss and can also develop a reasonable and logical information system to cope up with every need of the user according to the environment.

ARCHITECTURE-

The components that comprise V.I.C.T.O.R works in alayers in order to make the better use of the AI software. The diagrammatic structure representing the architecture of V.I.C.T.O.R. is represented in a block diagram below:



The diagram to represent the structure of V.I.C.T.O.R.

Each component plays an important and crucial function in the implementation of V.I.C.T.O.R.

The working and classification of each component of the architecture are given below:

- **CORE**

The core of the V.I.C.T.O.R. will comprise of the detailed structure of the neural network in which the complete networked architecture of neural network will be designed in order to overcome every situation ever faced in order to

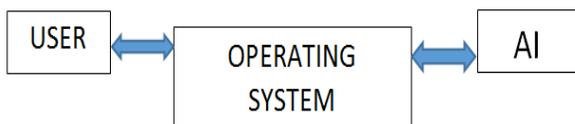
serve the user’s need. The neural network will be designed in order to accomplish the goal of providing the solution to every need of user which can be viable to perform with technology and can deliver best results. The structure of neural network will be interconnected using the coding which will make all the circuit connected to each other.

• ADAPTIVE INFORMATION SYSTEM

This layer of V.I.C.T.O.R. will help in cooperating the changing needs of the user and will be powered by the capability by which the Core of the V.I.C.T.O.R. make changes by himself by simply applying the application of Artificial Intelligence, known as Machine Learning (ML). This layer will be capable of making subtle changes and will be capable to adapt according to the need of the user. This layer will supervise the core in order to prevent the user to engage into the process of developing and coding, again and again, to simply make the system adaptive for the different needs of the user. This layer will work as a brain to the core of V.I.C.T.O.R. for making it suitable for changing needs of the user.

• OPERATING SYSTEM

This layer will serve as the ground for the process of communication between the user and the intelligence of V.I.C.T.O.R. in order to provide the bond between the user and machine intelligence. Comprising of speech-to-speech communication, this layer will provide every feature of an operating system with advanced GUI (Graphical User Interface) that make the communication between the user and machine at maximum ease. The working of this layer will work as follows:



Working of Operating System layer

• SHELL

This will be the outermost layer which will comprise of every component of V.I.C.T.O.R. inside it. The main function of this layer will be the providing of the shell encryption of the ‘X- type’ which will be followed by the Intrusion Detection System that will notify for every false negative situation at operating system level. This layer will protect the system from breaching and penetrating by external forces and activities and will help V.I.C.T.O.R. to

perform necessary activities without any interference from the external environment.

IMPLEMENTATION-

Once V.I.C.T.O.R. will be deployed, it will help us in doing every kind of work which can be done on the computer as well as on other electrical equipment. For example, some of the implementations of V.I.C.T.O.R will be acting as an Alarm clock, Informing the user about latest news in real time, weather forecasting, answering complex questions, solving really hard math problems, conversing, reading social network messages, informing about the meetings and plans for the day, energy saving, etc. This type of computer system will be easy to use, will be able to work with different commands, multi-task, secure and most importantly artificially Intelligent.

WORK IN PROGRESS

In order to make V.I.C.T.O.R. part of our lives, work has been started to design the layers of the structured model which are facing it’s own upcomings, but sometimes at a slow rate. Many algorithms for the neural network have been designed with designing of Adaptive Information Layer. Moreover, specialized designing for the Intrusion Detection System have also been done in compliance with better optimization and real time issues. Several studies have also been done in accordance to complete this dream system come true. Handling for the exception is the crucial part in overcoming difficulties to implement the structural design into the practical application of a full time computational intelligence

FUTURE SCOPE-

The main application of this type of frameworks will help us to overcome real live problems easily with suggesting Artificial mind to resolve real time and real lives problems. Once creating an operating system for computers, V.I.C.T.O.R. platforms for mobiles and tablets can also be developed in order to synchronize mobiles, desktops and tablets for efficient usage. Customized V.I.C.T.O.R. can also be deployed according to one’s own personal need. Also, this can also be used in Government organisations and many other research industries.