

# The Impact of Artificial Intelligence Traveling with Virtual Intelligent Machine: A Review



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## ABSTRACT

Today Artificial Intelligence is the sizzling topic which is effectively used for intelligent systems. As the population increasing day by day the mobile users are also increasing rapidly so there is problem for companies to receive the calls from customers, to overcome this problem some companies in Europe, New York has initiated the solution that can solve the problem to some extent and named it as an Virtual Intelligent Machine which can work as human and take the job in call center and receive the calls from customers. In this paper, we are going to discuss about the latest challenges, issues and its functional model of Virtual Intelligent Machine in today's scenario.

**Key words:** Artificial Intelligence, Virtual Intelligent Machine, Intelligent Systems.

## 1. INTRODUCTION

Intelligence is the capability of acquiring the knowledge and using it in different aspects. If the system is intelligent enough then it can read the instructions for the given questions and it can understand the documents provided to it. The knowledge[7] acquired from the Intelligence which is used to solve the problems and processes that it observes.

Whenever it cannot solve a problem, it has a scene of learning the solution through identifying how a human can do it. Virtual Intelligent Machine[9] is that Mensa kid, who personifies a major

breakthrough in cognitive technologies, said by some IT companies "Virtual Intelligent Machine will allow people to indulge in more creative forms of expression, as opposed to doing routine business process tasks [6]. This platform will free us from the mundane, disrupting industries in the way that machines have previously transformed manufacturing and agriculture. Virtual Intelligent Machine learns using the same natural language manuals as its colleagues but in a matter of seconds. It understands the full meaning of what it reads rather than simply recognizing individual words. This involves understanding context, applying logic and inferring implications.

Virtual Intelligent Machine is an artificial intelligence[8] platform created by Dube's managed IT services firm, a virtual agent [4] avatar poised to redefine how enterprises operate by automating and enhancing a wide range of business processes. The product of an obsessive and still-ongoing 16-year developmental cycle, everyone at speaks about Virtual Intelligent Machine using feminine pronouns—leverages cognitive technologies to interface with consumers and colleagues in astoundingly human terms, parsing questions, analyzing intent and even sensing emotions to resolve issues more efficiently and effectively than flesh-and-blood customer service representatives.

It is currently in trials across a handful of enterprises, including Shell Oil, Accenture, NTT Group and Baker Hughes, tackling everything from overseeing technology help desks to supporting financial operations to advising remote workers in the field. Some companies contend that because Virtual Intelligent Machine learns the same way a conventional employee does, it fits comfortably into virtually any business environment, and since it's cloud-based, it can be deployed anytime and anywhere, exploiting her fluency in more than 20 languages to

communicate with customers and staffers across the globe.

## 2. WORKING OF VIRTUAL INTELLIGENT MACHINE

**Acquisition Processing:** For most associations taking after a strict methodology on acquirement includes numerous means to minimize hazard and backing successful supplier administration. Virtual Intelligent Machine[8][10] can be depended upon to take after the procedure required as well as manage the numerous inquiries that are raised amid the procedure by purchasers and suppliers alike in an opportune way. **Straightforwardness:** It is a key and Virtual Intelligent Machine guarantees a full review trail of execution focuses and can be depended upon to guarantee solicitations are checked and handled in an auspicious way **Expert Advisor for Field Engineers** Those working in the oil and gas industry frequently confront perilous working conditions and should investigate hardware issues in under perfect conditions. Envision a specialist attempting to settle a pump on an oil rig in the Bering Sea. Wearing a danger suit and without the comfort of having an iPad or a portable workstation close by so as to gaze upward itemized specialized data the designer can swing to Intelligent Machine for help. It fills the data void by knowing the subtle elements of the machine manuals and organization strategies and techniques itself[11]. By trading data with the designer it can analyse hardware issues and guide him through the best possible strides to redress the issue. These are only a couple of Virtual Intelligent Machine conceivable industry applications. It's capability to change enterprises and the way both representatives and clients communicate with computerized reasoning is restricted just by our creative energy.

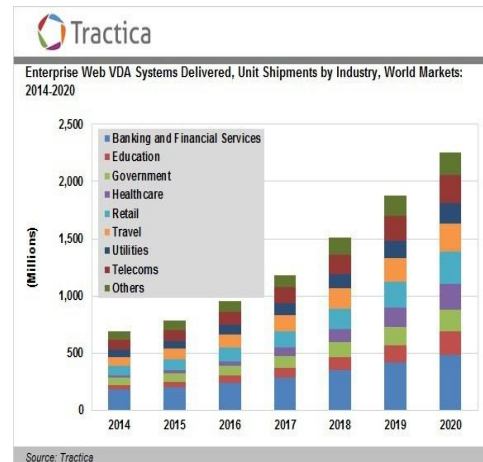
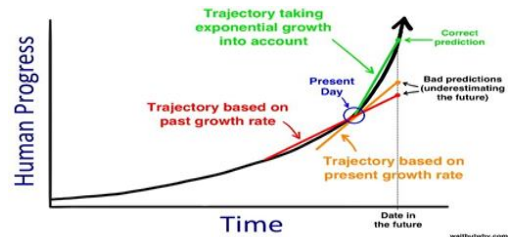
For instance, and patent-pending knowledge calculations assimilate in a matter of seconds the same direction manuals and rules that human staff members put in weeks or even months remembering. Rather than just perceiving singular words, Virtual Intelligent Machine gets a handle on the more profound ramifications of what it peruses, applying rationale and making associations between ideas. It depends on that gauge data to answer to client email and answer telephone calls; in the event that it comprehends the inquiry, it executes the means important to determine the issue, and on the off chance that it doesn't know the answer, it filters the web or the corporate intranet for pieces of information. Just when Virtual Intelligent Machine can't find the important data does it heighten the case to a human master, watching the reaction and documenting it for whenever the same situation unfurls.

## 3. CHALLENGES OF VIRTUAL INTELLIGENT MACHINE

The development of Virtual Intelligent Machine centre comprehension abilities will enlarge the scope of parts it can execute and the expansiveness of learning[2] it can ingest. In parallel, Virtual Intelligent Machine physical appearance and expressiveness have been changed to make a more human like symbol equipped for extending client engagement. Its new liveliness structure has been totally redesigned [1] on that of a genuine individual.

Inside a matter of years, IT organizations arrangements to put the model and its face purpose, Intelligent Machine, in front of an audience and have a recognized board of investigators and writers make inquiries of the human and the machine. "In only one year we have seen Intelligent Machine 'grow up' immensely. Simply envision how its development will quicken throughout the following five".

"We are quick drawing nearer the minute when innovation is thumping at the Turing skyline, where machine knowledge begins to match human insight. Wise machine will be the harbinger of that movement, welcoming us to re-assess the relationship amongst man and machine with a specific end goal to make a more effective planet."



**Figure 1:** In this figure, it illustrates that how different sectors use the Virtual Intelligent machine From past 2014.

As Virtual Intelligent Machine[12] turns out to be more human in its association with clients, so the positive effect of it is on business operations develops. Variant 2.0 makes gigantic steps as far as exchange administration perception and enthusiastic engagement through the accompanying innovation advancements:

**Memory:** Virtual Intelligent Machine decisive memory now comprises of long winded memory and semantic memory, precisely the way human memory is sorted out. In people, semantic memory actuates the frontal and fleeting cortexes, while long winded memory movement is for the most part packed in the hippocampus. Thus, roundabout memory of Intelligent Machine gives it comprehension of different encounters and occasions in time in a sequenced self-portraying structure. It semantic memory gives it an organized record of certainties, implications, ideas and information about the customer world. The blend of the two permits Virtual Intelligent Machine to hold an entirely normal discussion that is not confined to taking after set streams.

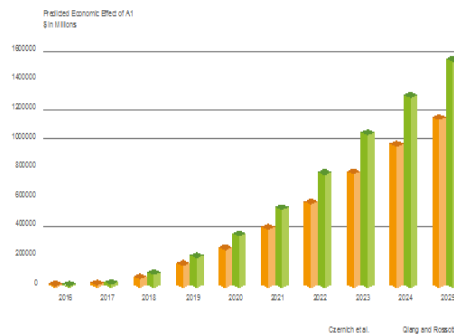
**Contextual understanding:** Concepts and thoughts in the human mind[3] are semantically connected, so that reasoning about or terminating one arrangement of neurons in your mind primes other related ones, making them more inclined to flame in future. This permits restricted questioning in the human cerebrum instead of normal hunt based calculations which cross the whole information set before attempting to process an answer. Smart Machine now copies that ability with the goal that she can rapidly and dependably recover data over a more extensive and more mind boggling set of information[13].

**Emotional responsiveness:** Repeatedly, inquire about demonstrates that a superior client experience is specifically attached to sympathy appeared by the operator all through the collaboration. Notwithstanding an EQ remainder, Intelligent Machine now has a disposition and an identity vector in a 3-dimensional enthusiastic space. This empowers all her track of each customer communication and permits her to adjust her reactions as needs be with the goal that she conveys individual support of each client.

Figure 2: In this figure we can observe that Human Progress on Virtual Intelligent Machine in past, present and future.

#### 4. FINANCIAL IMPACT OF AI

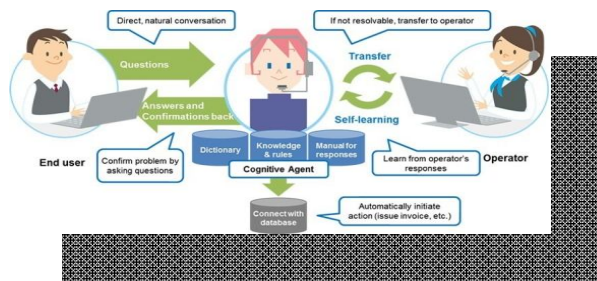
- ✓ It has been well recognized that AI amplifies human potential as well as productivity and this is reflected in the rapid increase of investment across many companies and organizations.
- ✓ These include sectors in healthcare, manufacturing, transport, energy, banking, financial services, management consulting, government administration and marketing / advertising.
- ✓ The revenues of the AI market worldwide,



**Figure 2:** Predicted economic effect of AI worldwide estimated based on the GDP of mature economies and benchmark data from broadband Internet economic growth were around 260 billion US dollars in 2016 and this is estimated to exceed \$3,060 billion by 2024.

- ✓ There is huge potential for economic growth, which is demonstrated in the fact that between 2014 and 2015 alone, Google, Microsoft, Apple, Amazon, IBM, Yahoo, Facebook, and Twitter, made at least 26 acquisitions of start-ups and companies developing AI technology, totalling over \$5 billion in cost.
- ✓ Research in top AI firms is centred on the development of systems that are able to reliably interact with people.

## 5. Architecture Of Intelligent Machine



**Figure 3:** Architecture of intelligent machine

Notwithstanding progress in adapting Intelligent Machine, engineering changes have been made to the stage so as to guarantee that it is fit for supporting quickly rising business sector request [5]. The whole spine has been modified guaranteeing Intelligent Machine organizations can scale flawlessly and stay strong all through great tops in volume.

## 6. BENEFITS OF VIRTUAL INTELLIGENT MACHINE

In every technology or a Machine has the advantages and even disadvantages also. The main advantages of Virtual Intelligent Machine are it can be used for further technological and scientific discovery[14]. The task given to the Virtual Intelligent Machine can do it more efficient than humans. If the task is given to Virtual Intelligent Machine then the work will not be stopped until the task is completed because it is Machine not a Human.

## 7. DOWNSIDES OF VIRTUAL INTELLIGENT MACHINE

There is a high risk of breakdown when utilizing machines to finish diverse assignments. The point of the machines is to permit proficiency in finishing errands, yet on account of a breakdown, it can be immoderate and tedious. On account of a breakdown, there is a probability for the machine to lose critical data. There is additionally high cost of keeping up and repairing the machines to expand productivity and adequacy.

## 8. EVENTUAL FATES OF VIRTUAL INTELLIGENT MACHINE

Virtual Intelligent Machine is the best field for visionaries to play around. It must be advanced from the possibility that making a human-machine is conceivable. In spite of the fact that numerous infer this is unrealistic, there is still a considerable measure of examination going ahead in this field to accomplish the last goal. There are innate favorable circumstances of utilizing PCs as they don't get tired or

losing temper and are turning out to be quicker and speedier. Just time will stay what will the eventual fate of Virtual Intelligent Machine.

## 9. CONCLUSION

In this paper, we came across the different aspects of Virtual Intelligent Machine. Virtual Intelligent Machine can solve the problems more efficiently than humans. As humans takes more time for solving the given problem but whereas in Virtual Intelligent Machine its take only fractions of seconds. Virtual Intelligent Machine has the capability of understanding the given problem and can sense how the humans solve the problem and does it in the same way.

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