

Integrating Artificial Intelligence (AI) into Accounting and Finance

Abstract

With the rapid development of information technology and the requirement of sound economical society, Artificial Intelligence has doorstep of the new age. The use of Artificial Intelligence technology in the accounting is a necessary phenomenon which will bring wonderful changes in the accounting industry. The use of Artificial Intelligence to the accounting industry will promote the development and innovation to the industry and enhance the competitiveness of the organization, which is of great significance. The adoption and use of Artificial Intelligence in Accounting time back to decades ago. However, it gains limelight in the contemporary time as today's business environment and operation embrace digital technology through the adoption of computer devices. This paper is a try to check upto what extent Artificial Intelligence can be useful in the field of accounting and finance.

Keywords: Artificial Intelligence, Business Environment, Limelight, Accounting Industry.

Introduction

AI stands for Artificial Intelligence which means something which is man-made. The term Artificial Intelligence can be divided into two words where Artificial means "something which is not natural or that is not a gift of nature" and Intelligence means "the ability to get meaning of something, ability to understand and work in a smarter, better, effective and efficient manner."

AI is not new for us. From our late 80's we have been using AI as supportive trunk, surviving us some fruitful results. Yes! From our 80's, AI is being used in the form of computers which has given a big helping hand in the fields of accounting, mechanics, science and many more. From the very early 20th century and may be before slowly and gradually AI is building its foundation to live with us as a part of our daily lives and soon its contribution of a complete house will be completed. We all have heard about JARVIS in movie of Ironman, where tony stark orders JARVIS for the completion of each and every work and even seeks help of JARVIS in any of his new upcoming tasks and events. Focusing on the Indian cinemas we have example of ROBOT movie of Rajnikant where Chitti the Robot does every work of Dr and then is successful in generating the feeling of love, anger, revenge, death in case of after falling in love with Dr's girlfriend. We also have a very old animated show for children as "Doraemon" who does the same work for Nobita; likewise we can have many examples of AI which can help us in its better understanding. AI is just the way of giving life, senses, brain to a machine which can perform the given tasks effectively and efficiently, named as ROBOT.

AI is also being used very enthusiastically by our cricketers in sports in the form of a "virtual device." In these two players- a batsman and a bowler can play at a time forming some virtual images, the phone we used, the calculators, the automatic irons, toasters are what- "A part of AI". In our lives from the growing of the seed till its time of giving fruit is a part of AI but, as every coin has two face in the same manner AI has even its some negative points; including the fear of some of our human resource of losing their jobs. As it is said that Artificial Intelligence (AI) is making a hybrid situation where many of our percentage of labors will be replaced by Artificial Intelligence (AI). A major fear of "losing their jobs" in everyone keeping fear aside, every problem can be solved and in this case if a from now onwards we are building and developing skilled workers than there are no chances of losing jobs.

Generation of Artificial Intelligence (AI) is also creating a fear that it can conquer the world. But, as it is always said, "Never let anyone lie your master, make them your servant – they will serve you longer."



Anil Verma

Assistant Professor
Deptt. of Accounting,
JNV University,
Jodhpur, Rajasthan, India

Aim of the Study

Artificial Intelligence is not new for us and the pace of change is very fast far flung acceptance in business and accounting is still in early stage. In order to build a positive vision of the future, there is a need to develop a deep awareness of how Artificial Intelligence can be useful for solving business and accounting problems, the constructive challenges and the ability of accountants need to work along with well informed systems. Artificial Intelligence should be integrated and incorporated in course curriculum of different degree level courses to increase awareness about this for making comfort and accuracy in accountant's job.

Impact of AI on Accounting and Finance

AI is not a curse; in fact it is a blessing that have come to stay with us in the form of angles as "Robotic technology". As from the late 80's computers and accounting are sharing a wedding relationship. To complete with technologies of new world many organizations are investing in Artificial Intelligence (AI) research and applications to replicate (Duplicate) human intelligence. As, there is a wedding relationship between accounting and computers, so this relation is being mixed and is presented into a new form called Artificial Intelligence (AI).

AI is being used by many accounting firms where it analyses a large volume of data at high speed which would not be easy for human. With the help of AI data can be recognized and can be categorized from different sources to the right accounting head. The 3 accounts in accounting viz- Real accounts, Personal accounts and Nominal accounts. Transferring the data to the suitable heads or accounts is the big role of Artificial Intelligence (AI). Where in transferring the balances of human may cut short the work due to lethargy but Robotic machinery will never, as it just go power down but will never leave the task incomplete. Many have also remarked a query where people are quite in a confused state that if anything goes wrong or if any kind of fraud occurs these who will take the responsibility?

The answer to this question lies in the definition of Artificial Intelligence (AI) itself where we can say that robots are nothing but just a creation of God; "whether a blessing or curse, depends on its feeding" likewise if any error or fraud is occurred then the human would be responsible as he is the master/ creator of the Robots. As it is said in **Bhagwat Geeta** by God Krishna that, "He has created this world, whether he destroys it, play with it or changes its structure" he will be held responsible. So, is the case in Robotic machineries where we are GOD and the Robot is a puppet.

Under accounting AI provides many effective functioning to us, which reduces our workloads:-

1. Helps in increasing productivity
2. Improves Accuracy
3. Reduces Cost
4. Well maintained records
5. Timely availability of data and many more.....

AI leads to improved cost management of companies by providing:-

1. Monthly or quarterly closing procedures
2. Tracking of changes in prices
3. Making the accounts more streamlined
4. Proper expenses management
5. The most importantly proper audit, all are related files are available to the auditor into just one device

In culmination, there is no end for sharing the knowledge on AI but things which have an end do have a new beginning and so as AI. Whether we disgrace it or praise it, it will be soon getting transformed into a bigger part of our lives till 2030. So, it will be beneficial for us and will be a smart decision to treat AI as our new guest in the upcoming technical world. Algorithms have become more authentic and adjustable, permitting solutions to automatically manage documents with variable structure, such as invoices. As a result data is automatically recognized in thoroughgoing and dependable way with no former constellation.

Artificial intelligence in Accounting and Finance presents a new paradigm. Great changes have occurred in the organizational environment as an effect of the advances yielded by new production, information and communication technologies. In this new complex and changing environment, it is necessary to have available sufficient, updated and suitable information, in any moment, in order to make decisions in an effective manner. Today this is only possible using electronic computers and means provided by information technology. Furthermore, due to the research undertaken in Artificial intelligence developing knowledge based systems and expert systems, acute changes have been also produced in knowledge management, being this an essential element for decision making.

Conclusion

Recent industries reports inspected the logical implications of Artificial Intelligence on accounting teams and confirm that Artificial Intelligence and associated natural language interfaces have likely to change the way that the accounting and finance team and other stakeholders interact with data. As a matter of fact finance leaders play a crucial role in bringing rising technologies such as Artificial Intelligence as to business. This expert system (AI) application in the financial planning and in the financial analysis domain performs the system by adding expert system to the traditional tool set. It is very difficult to qualify parameters in mathematically models because it is mainly based on heuristic knowledge, available only frame the expert, acquired by this person personally after many years of experience in trying to solve a problem on a continued basis. This expert system technology is very useful in this type of task because it enables using heuristic knowledge and the inaudible assistance of financial planners and analysts. Artificial Intelligence is bound to call in revolutionary changes in the business world and accounting field with wide ranging possibilities of a satisfying increase in productivity and lowering of

costs. It is apart from the precision and accurately that Artificial Intelligence can bring in any tiresome manual chores that have been automated.

References

- Brown, C., "Tax Expert Systems in Industry and Accounting," *Expert Systems Review*, June 1988
- Brown, C., "Tax Expert Systems in Industry and Accounting," *Expert Systems Review*, June 1988
- Davis, D., "Artificial Intelligence Goes to Work," *High Technology*, April 1987
- O'Leary, D. and Watkins, P., *Expert Systems and Artificial Intelligence in Internal Auditing*, Markus Wiener Publishing, 1995
- Ribar, G., "Development of an Expert System," *Expert Systems Review*, June 1988
- Srinivasan, V. and Kim, Y., "Designing Expert Financial Systems: A Case Study of Corporate Credit Management," *Financial Management*, Volume 17, Number 3, 1988