Chapter 2
Artificial Intelligence:
New Pathways and Challenges in Higher Education

Mani Arora
Mayawati Government Girls Post Graduate College, India

ABSTRACT

Virtually everyone has to make hundreds of decisions every day in his day-to-day life. "Good decision making" means we are informed and have relevant and appropriate information on which to base our choices among alternatives. Decision support systems are emerging as a very powerful tool for making rational decision based on various sources of information. In this chapter, the authors attempt to understand how the intelligent decisions are required for any successful endeavour. In this complex world where information explosion has good and bad news, both finding analysing the adequate information is a tedious task that always requires expert advice. In today's digitalised world, various programs are designed especially for the education sector, which helps both the learner and tutor. Technology can reduce time to make decisions for the fussy or confused learner, thereby providing assistance.

INTRODUCTION

Education is a ongoing process from birth which starts as early as a child comes in the phase of understanding and continues till the last breath of his life. Virtually everybody has got to create hundreds of Choices every day in his day to day life. "Good Decision Making applying the knowledge and wisdom gained during the process of learning into the practical situation. Decision Support Systems are rising

as a awfully powerful tool for making rational decision based on numerous sources of Information. During this chapter we will try to perceive that how the intelligent decisions are required for any successful endeavour? In this complicated world where Information Explosion has good and worst news both, finding and analysing the adequate information could be a tedious task which always requires a professional recommendation. This chapter will also describe the use of various options and features which are available for the learning of educational scholars and guiding them in line with to their various abilities. In today's Digitalised World various programs are designed particularly for the education sector which helps both the learner and tutor for learning environment. Technology will cut back time to create choices for the fussy or confused learner thereby providing assistance.

What Is Intelligence?

The ability to accumulate knowledge or skills and then applying into the assorted means for solving problems is generally termed as intelligence. The basic human behaviour for e.g. to take decision at the time of risk of fire or any emergency is delineated as intelligence. Whereas even the most sophisticated work of an insect or an animal is rarely termed as intelligence. Human beings are termed as born intelligent however machines are created to resolve only what is outlined in their programming, and once any machinery created capable enough to show intelligence just like any other human being it is termed as Artificial Intelligence. The main stages in the process of decision making can be classified into the four categories: learning, understanding, applying learning with the help of perception, and using language to take the decision.

And when all these components are programmed even through a human being into the machinery it's termed as artificial intelligence.

Artificial Intelligence is outlined as

"Everything we love about civilization is a product of intelligence, so amplifying our human intelligence with artificial intelligence has the potential of helping civilization flourish like never before – as long as we manage to keep the technology beneficial."
As stated by Max Tegmark, President of the Future of Life Institute

"AI is a computer system able to perform tasks that ordinarily require human intelligence... Many of these artificial intelligence systems are powered by machine learning, some of them are powered by deep learning and some of them are powered by very boring things like rules." by DataRobot CEO Jeremy Achin.

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