## **Implementing Artificial Intelligence**

## Nripesh Trivedi

Department of Mathematical Sciences, Indian Institute of Technology, Varanasi

## **Implementing Artificial Intelligence**

Artificial Intelligence is about knowing something (having a knowledge) and then using that knowledge to do something with that knowledge [1]. This is demonstrated by algorithms in machine learning and data mining [1]. One thing that is common in all these algorithms is that they find **function** of the variables in focus and then they use that found **function to** predict something. This paper outlines this property of artificial intelligence. In all algorithms, from unsupervised classification [1], supervised classification [1], linear regression [1], kernel k-means [2] and to deep learning [3], one is trying to find a function of the variables in focus and use those variables to find the **function** of those variables [1][2][3]. After we find function of those variable, one makes application of it [1][2][3]. Applications of the **function** found range from medical, engineering to daily life [1][2][3].

## References

- 1. Witten, D., & James, G. (2013). *An introduction to statistical learning with applications in R.* springer publication.
- Trivedi, N., Asamoah, D. A., & Doran, D. (2018). Keep the conversations going: engagement-based customer segmentation on online social service platforms. *Information Systems Frontiers*, 20, 239-257.
- 3. LeCun, Y., Bengio, Y., & Hinton, G. (2015). Deep learning. nature, 521(7553), 436-444.