

Overview of Machine Learning

Himanshu Chauhan

B. Tech (Computer Science and Engineering) Student
Dronacharya College of Engineering, Gurgaon, Haryana, India

Abstract: *The machine learning field, which can be briefly defined as enabling computers make successful predictions using past experiences, has exhibited an impressive development recently with the help of the rapid increase in the storage capacity and processing power of computers. Together with many other disciplines, machine learning methods have been widely employed in bioinformatics. The difficulties and cost of biological analyses have led to the development of sophisticated machine learning approaches for this application area. In this chapter, we first review the fundamental concepts of machine learning such as feature assessment, unsupervised versus supervised learning and types of classification. Then, we point out the main issues of designing machine learning experiments and their performance evaluation. Finally, we introduce some supervised learning methods*

Keywords: Machine Learning, Artificial Intelligence.

REFERENCES

- [1]. "An Executive Primer on Artificial General Intelligence," McKinsey & Company, April 2020. Accessed July 21, 2020.
- [2]. Ancona, Marco, et al. "Towards better understanding of gradient-based attribution methods for deep neural networks." Proceedings of ICLR, 2018.
- [3]. "Artificial Intelligence at Google: Our Principles," Accessed May 27, 2020.
- [4]. Costa, E., Halpern, D., "The behavioural science of online harm and manipulation, and what to do about it," The Behavioural Insights Team, 2019. Accessed May 27, 2020.
- [5]. Coursera, Deep Learning Specialization. Accessed October 2020.
- [6]. Davenport, T. H., Ronanki, R., "Artificial Intelligence for the Real World," 2018. Accessed July 21, 2020.