Machine learning with Text using Python



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CHAPTER- 1 BASICS OF MACHINE LEARNING

1.1 Basic aspects on Artificial Intelligence and Machine Learning

Artificial intelligence (AI) is a major topic today and it is spreading globally with the success of implementation of new technologies like Siri etc. For example, talking on your mobile is fun and helps you find out what's going on around the globe, where the like where is the best sushi restaurant in town or discuss how to get to a concert venue etc. When you talk to your smartphone, it learns more about your speech patterns and makes fewer mistakes when it understands your questions. Now a days, a smartphone's ability to track and interpret individual's speech in a unique way is an example of artificial intelligence and one of the techniques used to do so is machine learning. In the current scenario, individuals probably apply technology and artificial intelligence everywhere these days without even thinking about it. For example, being able to talk to cars and force them to do what you intend them to do is an example of machine learning in the workplace. Similarly, referral programs like those available on Amazon help you make purchases based on criteria such as previous purchases or product which others also purchased etcare added to the current selection. Researchers and business practitioners are stating that the role of Artificial intelligence and machine learning will increase in the coming decade.

Machine learning is based on algorithms for analysing large databases. At present, the technology enable in offering the kind of tools which enables individuals to perform various functions covering data crunching, data analysis and other aspects effectively. What machine learning can do is perform predictive analytics faster in an effective manner when compared with traditional types like MS Excel etc. As a result, machine learning can help people to do things better. So, the current state of artificial intelligence produces better data analysis so as to make the moral and ethical decisions required of them. This part tends to consider the relationship between Artificial Intelligence and Machine