

## Chapter 22

# Role of Educational Data Mining in Student Learning Processes With Sentiment Analysis: A Survey

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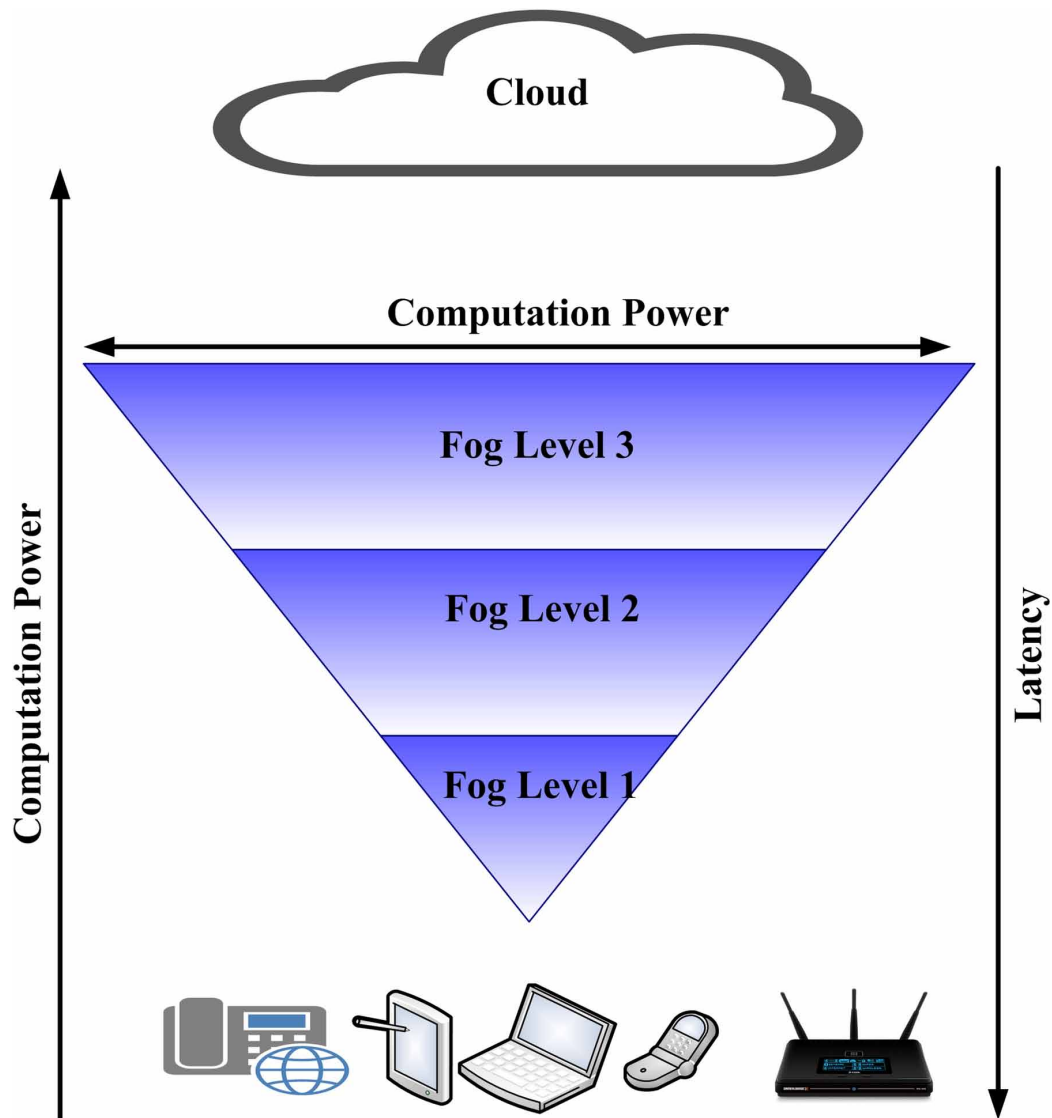
### **ABSTRACT**

*Educational data mining is a research field that is used to enhance education system. Research studies using educational data mining are in increase because of the knowledge acquired for decision making to enhance the education process by the information retrieved by machine learning processes. Sentiment analysis is one of the most involved research fields of data mining in natural language processing, web mining, and text mining. It plays a vital role in many areas such as management sciences and social sciences, including education. In education, investigating students' opinions, emotions using techniques of sentiment analysis can understand the students' feelings that students experience in academic, personal, and societal environments. This investigation with sentiment analysis helps the academicians and other stakeholders to understand their motive on education is online. This article intends to explore different theories on education, students' learning process, and to study different approaches of sentiment analysis academics.*

## 1. INTRODUCTION

Education is the continuous process of learning or ongoing development in abilities, values, attitudes, behaviours and intelligence. Types of Education include instruction, reading, narrative, debate, and guided study. Education is mostly provided under the inspection of teachers, and also but learners may undergo self-learning. The process of education can be done in a formal or informal environment. The definition of education differs between philosophers. Figure 1 shows some description of Education by various philosophers.

*Figure 1. Definition of education*



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