

Abstract

Success is a result of good decision making, which in turn is possible by informed decisions. Measuring student's previous performance based on individual analytics can help them make informed decisions, which will ensure a boost in their CGPA. Educational Data Mining (EDM) is a field which focuses on finding interesting patterns in academia and helps students by providing them with better insights. The last year of undergraduates is extremely important as they are about to start their professional career, this study implements XGboost to recommend the elective course/s which a student should opt based on the results in previous courses and few demographic factors, and predicts the CGPA based on the elective course chosen. The results show that the proposed framework achieve better accuracy than the previous ones.

Keywords: *course selection, cumulative grade point average, XGBoost*