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Role of Placement Cell Intelligence in Higher Education

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ABSTRACT

This paper presents a comprehensive statistical experiment to identify the number of students those are ready for placements and students those are not fulfilling the basic criteria for placement from a large database of all computer engineering students of a college containing their academic record. The design of experiments software named Weka Tool is used for making three clusters of whole database which will categorise the students according to their qualifications. A variety of important parameters for measuring student's performance including academic performance, technical skills, soft skills, training and projects are considered to capture the desirability and ability of a student for placement. With the simulation and analysis results, it conclude that how many students in the college are ready and fulfill all basic requirements for sitting in a placement drive, how many students need to improve their performance and how many students will face difficulty in completing his/her degree. After getting the results in form of three clusters, then a system is trained that predicts the category of the student from a new database for next session. This system will validate the results and classify that which student should comes under which cluster.

Key words: Placement, Data mining, Clustering, Segregation, Classification validation, Weka tool.

Introduction

University is an institution of higher education and research which grants academic degrees in a variety of subjects and provides both undergraduate education and postgraduate education. University performs various activities like enrolling the students, conducting classes, conducting special workshops of different subjects, conducting placement etc. This paper is going to describe the activity related to placement, its two important problems and their solutions.

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