Decision Support System for Final Year Project Management

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Abstract— In a university system, the final year project is a synthesis of all the knowledge the students have acquired throughout the different years of their stay in the university. This knowledge must be used to solve a specific problem.

Finding and selecting the appropriate project topic and supervisor to supervise the students, presently is in most cases very subjective. This paper presents a web based decision support system that automates efficiently the management of final year projects. The main contribution of the research is to recommend project supervisors and project topic based Naïve Bayes prediction.

The decision support framework is web based, developed using JSP (Java-Server Pages), which integrates machine-learning algorithms to allocate final year projects and supervisor.

The developed system has been able to provide a platform that maximizes the potentials of students and faculties particularly to solve industry and community related problems. This research has provided a platform to improve the quality of final year research project in the higher institutions of learning. It has also provided a rich platform for available project prototypes and help to eliminate the problems peculiar to lack of automation in final year project management and decision making.

Index Terms— Data Mining, Classification algorithm, Naïve-Bayes algorithm, final year project management