International Conference

on

Optimization, Learning and Analytics in Business

(OLAB 2022)

15th – 17th December 2022

Jointly organized by

Department of Mathematics
Heritage Institute of Technology

Kolkata, West Bengal, India

&

Operational Research Society of India

(Kolkata Chapter)

Venue:- S. V. Auditorium
Heritage Campus

OLAB-2022

This "Book of Abstracts" of the International Conference on **Optimization, Learning and Analytics in Business (OLAB-2022)**, held during **December 15-17, 2022**, jointly organized by **Department of Mathematics, Heritage Institute of Technology, Kolkata and Operational Research Society of India, Kolkata Chapter** and is being published by the organizers.

Venue

Heritage Institute of Technology, Kolkata, India.

Conference Committee

Chief Patron

Shri P. R. Agarwala, Chairman, Heritage Institute of Technology Kolkata, India

Prof. Angappa Gunasekaran, EIC, OPSEARCH

Patron

Mr. Pradip Agarwal, CEO, Kalyan Bharti Trust

Honorary Chairs

Prof. J. K. Sharma, President, ORSI

Prof. Basab Chaudhuri, Principal, Heritage Institute of Technology Kolkata, India

Organizing Committee

Chair

Prof. Debabrata Datta, Heritage Institute of Technology Kolkata, India

Co-Chair

Prof. Sanjib Biswas, Calcutta Business School. Kolkata, India

Paper ID – 2721

Applying the ID3 Algorithm to anticipate professional students' preplacement training

Krishna Roy (krishna.roy@bcrec.ac.in)

Dr. B. C. Roy Engineering College, India

Arunava Mookherjee (arunava.mookherjee@bcrec.ac.in)

Dr. B. C. Roy Engineering College, India

Sudip Bose (sudipbose3071@gmail.com)

Dr. B. C. Roy Engineering College, India

Sandip Bose (bosesandip13@gmail.com)

Dr. B. C. Roy Engineering College, India

Joyjit Patra (joyjitpatra.meet@gmail.com)

Dr. B. C. Roy Engineering College, India

Subir Gupta (subir2276@gmail.com)

Dr. B. C. Roy Engineering College, India

Abstract

Different professional degrees have been shown to require students to acquire various sets of abilities and competencies. Institutions aim to provide a variety of courses to help students develop their skills, but they do not always know what students want. Recruiters were found to evaluate applicants' technical and soft abilities equally. Students believe that when they complete a professional program, specific types of instruction will help them develop their talents. The institute is having difficulty understanding what the student expects from them. This study assessed student expectations and perceptions of higher education institutions. It was done to determine the training requirements that educational institutions ought to satisfy. The objective of this study was to determine the criteria that can be used to predict training needs. Students were separated into groups using the ID3 method of the decision tree to determine their predictions based on these variables. The confusion matrix and the R.O.C. curve were used to determine the model's robustness. The specificity rate was 74.1 percent, sensitivity was 78.6 percent, and accuracy was 76.7 percent. The sum of the sensitivity and specificity scores was 1.527. The study gets an empirical R.O.C. of 0.76. It's a good sign if the model's capabilities are sufficient. The technique revealed that students have high expectations for instruction in soft skills.