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Ashokkumar Patel
Nishtha Kesswani
Madhusudhan Mishra
Preetisudha Meher *Editors*

Advances in Machine Learning and Big Data Analytics I

ICMLBDA 2023, NIT Arunachal Pradesh, India, May 29–30

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Contents

Prediction of GATE Examination Clearance for Fresh Graduate Candidates: An Advanced Machine Learning Approach

Ayan Banerjee, Rachana Das, Puja Kumari, Ankita, Syed Zahir Hasan, and Sovan Bhattacharya

Abstract The main objective of any educational institution is to provide students with the best education and knowledge possible. To do this, it is crucial to recognize the kids needing more help and take the necessary steps to raise their performance. In this chapter, we predicted how well students would perform on their GATE test on the first attempt. The linear regression machine learning (ML) model is our primary method for predicting the GATE score. We individually trained the models for each GATE CS paper's subjects. The earlier graduation marks for each topic are given special regard in this research. Now that we have analyzed our ML models for each subject based on their training and testing accuracy, we can conclude that the models for every individual subject give an accuracy of more than 90%. Hence, our approach and model can be implemented in real-time applications.

Keywords Machine learning · Linear regression · GATE score prediction · GATE CS marks prediction · GATE clearance prediction · Advanced ML approach

Rachana Das, Puja Kumari, Ankita, Syed Zahir Hasan and Sovan Bhattacharya contributed equally with all other contributors.

A. Banerjee (✉) · R. Das · P. Kumari · Ankita · S. Z. Hasan
Department of CSE, Dr. B. C. Roy Engineering College, Durgapur, West Bengal, India
e-mail: Ayan.B@labvantage.com; zahir.hasan@bcrec.ac.in

S. Bhattacharya
Department of CSE, Data Science, Dr. B. C. Roy Engineering College, Durgapur, West Bengal, India

Department of CSE, National Institute of Technology, Durgapur, West Bengal, India

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