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International Conference on Communication, Devices and Networking : Submission (146) has been created.

1 message

Microsoft CMT <noreply@msr-cmt.org>   2 December 2025 at 10:57
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Hello,

The following submission has been created.

Track Name: ICCDN2026

Paper ID: 146

Paper Title: Towards Inclusive Education: A Web-Based Platform for School Dropout Prediction using Random
Forest and Gradient Boosting Classifiers

Abstract:
School dropout in India presents a rather major obstacle in India for equal and inclusive education.
Though this phenomenon is complicated and multi-casual, dropout rates are especially high at the secondary
level. And typically the policy making does not really solve this issue. By means of machine learning,
this paper offers a proactive web based response to this problem. It entails the creation of a thorough
platform like a frontend website employing Streamlit Python Framework as well as strong backend supported
by Random Forest and Gradient Boosting classifiers. The reason for choosing Random Forest and Gradient
Boosting algorithms were they have high accuracy and capacity for feature important analysis, which helps
to diagnose the underlying reasons for the predictions. This website provides a user-friendly interface
where users can access and also analyze pre-trained model's results on the dashboard while exploring
detailed analytics by different factors such as school, age, area and caste. This paper demonstrates how
prediction analysis can be transformed into an actionable tool that helps people understand the reasons
why student dropout.
Keywords - School Dropout, Machine Learning, Random Forest, Gradient Boosting, Predictive Analytics,
Inclusive Education.

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Secondary Subject Areas: Not Entered

Submission Files:
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Submission Questions Response: Not Entered

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