

IoT + AI Attendance Monitoring to Predict Dropout Risk — Wisdom School Musanze, Rwanda

AI in Education · Good practice · Rwanda

Quality score: 27/100

Evidence strength: Cautionary / limited

Summary

Researchers from Rwanda Polytechnic and the University of Rwanda built a fingerprint- and infrared-sensor attendance system at a Musanze secondary school and trained a decision-tree model on 2020–2021 records, reaching 91.4% accuracy linking low attendance to dropout.

Key dimensions

Dimension	Score
Evidence of learning impact	2/3
Equity & inclusion	1/3
Transparency, ethics & data protection	1/3
Teacher capability & pedagogy	0/3
Scalability & sustainability	0/3

Evaluated by C-NAPSE

Data sources

[C-NAPSE web research](#) — accessed 2026-08-27

[Rwanda Polytechnic \(IPRC-Kigali\) and University of Rwanda, with Wisdom School Musanze](#) — accessed 2026-08-27

[European Journal of Technology — IoT and AI Based Student's Attendance Monitoring System to Mitigate the Dropout in Non-boarding Secondary Schools of Rwanda](#) — accessed 2026-08-27

[University of Rwanda Digital Repository — IoT based student's attendance monitoring system: Case study Wisdom school Musanze](#) — accessed 2026-08-27

Cite this — Evidoria. *IoT + AI Attendance Monitoring to Predict Dropout Risk — Wisdom School Musanze, Rwanda*. Persistent ID: 4df4e865-db77-4bc2-911d-d5709d47ad70.