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(57) Abstract :

The present invention discloses a machine learning model (100) for predictive student attendance analysis. It comprises data acquisition (110), preprocessing (120), feature engineering (130), and machine learning engine (200) for forecasting absenteeism trends (140). An intervention framework (150) provides alerts and recommendations for at-risk students, while a visualization dashboard (600) enables real-time monitoring. The invention improves retention, engagement, and academic outcomes by enabling proactive measures. Its scalability (400) ensures adaptability across schools, universities, and digital platforms.

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