

Research on the application of convolutional neural networks (CNN) in predicting academic performance and academic warning for students at Thuy Loi University.

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Abstract: In the context of education increasingly focusing on training quality, this topic aims to solve the problem of predicting student academic performance and developing an early warning system to effectively support academic management. By applying Convolutional Neural Networks (CNN), this research will provide a data science foundation to improve the learning experience for students while enhancing teaching productivity and quality at Thuy Loi University. The expected outcome is an accurate prediction system, making a significant contribution to effective academic management.

Keywords: convolutional neural network (CNN), academic performance prediction, academic warning, Thuyloi University students, academic management