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The preparation of this thesis has gone through a long, exhausting road and various stages by standard procedures in force at Faculty of Mathematics and Natural Sciences in Medan State University, ranging from observation, determination of research topics, preparation and seminar proposals, revision of proposals, research implementation, and preparation of the thesis. The selection of research topics is based on current problems related to technology development in education. The role of technology in education is essential to realize quality education in the digital age.

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The author realizes thesis still has shortcomings and limitations. However, while expecting constructive criticism and suggestions, the author hopes this thesis can be helpful for related parties, especially moving towards educational transformation in the digital era, realizing learning by adapting educational paradigms to suit the demands of the times.

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