

Building a face recognition application based on TensorFlow Lite and Java technology

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Abstract: This topic focuses on building a facial recognition system using the TensorFlow Lite architecture and the Java programming language. The context for selecting this topic stems from the high demand for facial recognition technology in mobile applications and web platforms. The main objective of the research is to develop an efficient, customizable solution to meet the practical requirements of businesses and individuals. The research methodology includes analyzing the theory of machine learning and training facial recognition models, combined with implementing and optimizing Java code on the TensorFlow Lite platform. The expected results of the topic will provide a flexible system that can be widely applied in various fields of information technology, while also making a significant contribution to the development of modern facial recognition technology.

Keywords: TensorFlow Lite, Face recognition, Java, Mobile technology, Artificial intelligence system