

Research and development of an Android application for food recognition and nutritional recommendation based on artificial intelligence.

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Abstract: In the context of the rapid growth of information technology, developing an image-based food recognition system that provides appropriate nutritional information has become a practical need. This topic focuses on theoretical research and the implementation of an Android application to address this issue, including the analysis of image recognition algorithms, training artificial intelligence models, and building an intuitive user interface. The project aims to develop an efficient system that helps users easily manage their diet scientifically. The expected results will demonstrate the practicality and high applicability of the topic in daily life.

Keywords: Android application, image recognition, artificial intelligence, nutritional regimen