

Fruits Classification Application For Early Childhood Education Using Convolutional Neural Network (Aplikasi Klasifikasi Buah untuk Pendidikan Anak Usia Dini Menggunakan Convolutional Neural Network).

Rizdky Oktaviari Pratama Putra

Program Studi Teknik Informatika

Jurusan Teknologi Informasi

ABSTRACT

The educational fruit classification application is a mobile-based learning tool designed for young children to enhance their understanding and knowledge of various fruits. The application aims to improve upon several aspects, including increasing the number of fruit labels from 10 to 36, transitioning from a desktop platform to mobile, and introducing support for the Malay language. Through the app, children can explore and learn about different fruits through interactive features such as uploading fruit images, taking photos, and scanning images. The classification results are presented in the form of informative text, animated images, and audio pronunciation, providing a comprehensive and engaging learning experience. The expanded fruit label selection allows children to explore a wider variety of fruits, enabling them to gain a more comprehensive understanding of the different types available. By transitioning to a mobile platform, the application becomes more accessible and convenient for children to use anytime, anywhere. The addition of the Malay language feature enhances the inclusivity of the application, catering to a broader audience and promoting language learning among children. The integration of animated images, text information, and audio pronunciation further enhances engagement and comprehension.

Keywords: cnn, education, fruit classification, interactive features, language support, mobile application