

Title: DoglCare: An Android Based Application Utilizing Digital Image Processing for Detecting Cataract for Dogs Using Viola-Jones Algorithm

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EXECUTIVE SUMMARY

The researcher's main purpose of this study is to provide dog owners an android application that can detect cataract in their dog's eyes. The researchers made use of the image processing technique in achieving the objectives. The application will be running on an android platform with a minimum camera requirement of 5-megapixel to clearly capture the dog's eye. The researchers used Open Source Computer Vision (OpenCV) Library for real-time object detection SQLite Database which is a self-contained and server less database engine.

Keywords: Viola-Jones Algorithm, Image Segmentation, Digital Image Processing Technique, Support Vector Machine, Real-time Detection, OpenCV.