



## Cashew Grading Using Image Processing

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**Abstract**— The food quality that we consume is of more importance, as people are becoming educated their demand for quality of grains is increasing. There is possibility of adulteration of food grains by the traders. Generally, the quality assessment is carried by visual inspection which is manual process. In this work an image processing technique with Raspberry-pi is used as an attempt to automate the process which overcomes the drawbacks of manual process. This project provides the quality assessment of cashew nuts based on its size. Based on the size the cashew is graded as (grade 1, grade 2 and grade3). The system is developed using multiple images and are classified using decision tree-based classification technique. The results are found to be encouraging.

**Keywords**— Digital Image Processing, Raspberry-pi3, Python Language.

Full text: <https://sites.google.com/a/ijrit.com/papers/may5/V6I511.pdf>