



Scan QR code to detect almond quality in real-time using mobile phone

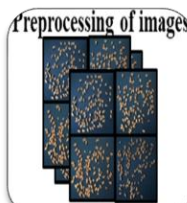
Objective

- Development of an AI-based model for the grading and segregation of almonds.
- Integration of developed algorithm with hardware for sorting almond kernels
- Real-time detection of the quality of almonds kernels using mobile phone

Execution of project

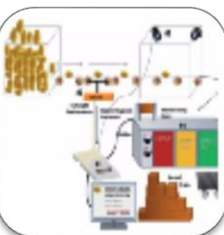


Step-1: Development of a data-set for almond kernels

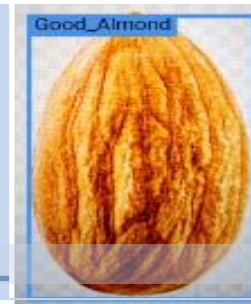


Step-2: Model Training using Deep learning techniques for the grading of almond kernels

Step-3: Integration of software model with hardware (raspberry-pi, camera and servo motors) for sorting of almond kernels



Work Done



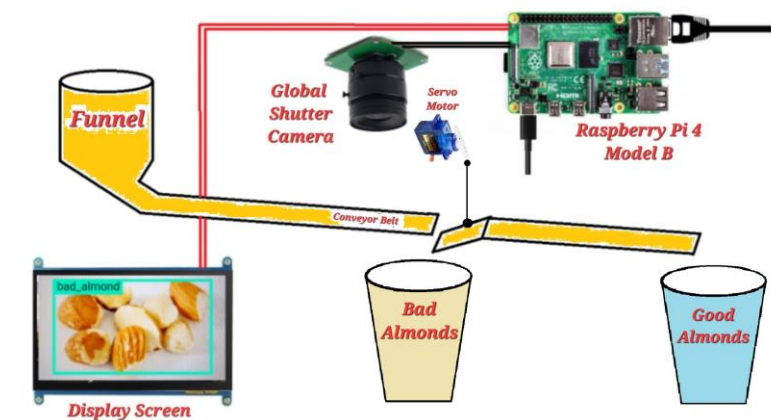
Software

Anaconda/ (YOLO V-8, Tensor Flow Mobilenet FPN 320 *320)
VNC viewer, Putty, RoboFlow, jupyter notebook.

Hardware

Raspberry-pi ,GS-Camera, Servo motors, Ethernet cables

Proposed Model



Scan QR code for project information

Team members

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