

Development of Sugarcane Peeler and Juice Extracting Machine

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Abstract: *This research paper aims to find a solution for vendors' issues as well as designing and building a device that meets customer needs by giving them freshly squeezed sugarcane juice with high nutritional value. The main goal of this research paper is to develop and design a machine that can peel the sugarcane as well as extract the juice from it, and it must be available at an affordable price to all vendors, whether they are small or large. The study focuses on the two tasks: solving every vendor's problem and making machines available to all vendors, regardless of size. Another consideration that must be made during the design and development of a machine is its price. This machine must be made available in the market at a lower cost than other machines and must also satisfy all of the demands of customers and suppliers. Since the equipment is inexpensive, everyone should be able to launch their business with very little capital. Apart from the nutritional qualities of sugarcane juice, the extracted juice contains a lot of suspended solids and impurities, which affects the quality, taste and color due to the presence of wax and other plant impurities. In today's market, various models of peeling machines are available, including fully automatic and semi-automatic peelers, which are more expensive and out of reach for small-scale vendors. As a result, this paper focuses on the development of low-cost sugarcane peeling machines, particularly for small vendors. This low-cost sugarcane juice extractor and peeling machine is made to be easily accessible at a cheap cost with the maximum level of efficiency. As it's combination of both peeling and juice extraction processes, the vendor doesn't need to buy a separate machine.*

Keywords: Sugarcane, sugarcane peeler, vendors, machine efficiency

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- [18]. Voice cloning is to keep the current semantic information, and only change the speaker's voice personality characteristics to make it sound like another speaker.
- [19]. Through the study of voice cloning, we can further strengthen the study of speech- related parameters, explore the pronunciation medium of humans, control the personality characteristic parameters of speech signals. advantage is that the network and data set used in each model can be flexibly selected and changed, which is convenient for later optimization.