**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

 (MANIPAL UNIVERSITY JAIPUR)

 Format for B.Tech (CSE-6th Semester) SE Project Proposal

1. Title of Project: Fruit Maturity Detection
2. Introduction: The automation of some tasks in the agricultural production cycle has considerably attracted researchers for more than twenty years ago, such as water and pesticide spraying, weed control, harvesting fruit and vegetables in orchards or greenhouses, crop quality assessment , etc.
3. **Tools (Hardware-Description, Software Description: Front – End Description, Back – End Description): AMD Ryzen 7, Nvidia GTX 1650, 16Gb ram, Python, Anaconda, Google Colab**
4. **Conclusion & Future Scope: The proposed approach includes four steps. Thresholding segmentation method and some morphological operations are used in the first step for a region of interest extraction. In the second step, color-based features are drawn from the segmented fruit images and divided into training and testing data. The classifier training parameters are the object of the third step. In the last step, the classification is accomplished using the trained ANN.**
5. **No. of Member in Group with Name and Registration no.: Saksham Rawat (209301285)**
6. **\*Name of Guide (Faculty): Mr. Jay Prakash Singh**

**(Submitted By)**

1. **Name & Signature**

**Saksham Rawat**

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