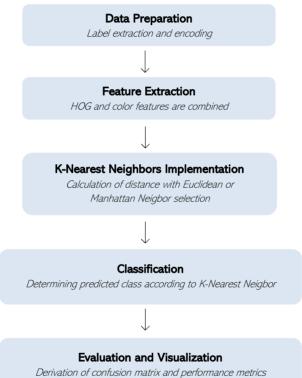


Chair of Digital Signal Processing and Circuit Technology

K-Nearest Neigbor Based Image Classifier

The overall goal of this system is to demonstrate how image processing, feature extraction, and K-Nearest Neighbors can be used together to classify images based on their visual content. It's a form of machine learning applied to image classification that figures how to handle real-world data, process it into a usable form, apply ML algorithm, and evaluate its performance. Implementation was done with Python3 and Sklearn, NumPy, Matplotlib etc. libraries were used.





In this implementation, features are insufficient to determine whether the object is a tomato, a ball or orange. New features should be added to ensure that objects can be distinguished efficiently.