**Fruitlens: AI-powered fruit & vegetable recognition and nutritional analysis**

SE-B-5

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Making informed dietary choices can be challenging, especially when it comes to understanding the nutritional value of fresh produce. FruitLens leverages YOLO-based object detection and computer vision to accurately identify fruits and vegetables in real-time using a smartphone camera. The app provides instant nutritional insights, including calorie content and vitamin composition, helping users make healthier food choices effortlessly. Additionally, FruitLens integrates with a dynamic database to offer price comparisons and dietary recommendations, creating a seamless and informative user experience. Designed with an intuitive interface, the app empowers individuals to track, learn, and improve their nutritional habits conveniently.

Keywords: computer vision, dietary tracking, nutritional insights, object detection, real-time recognition, yolo