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Food Calorie Estimation Tool for Health Monitoring

IntelliDiet: A Personalized Meal Planning System

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ABSTRACT: IntelliDiet is an AI-powered meal planning tool that estimates calorie content from food images and provides personalized diet recommendations based on user health data (height, weight, BMI). It ensures balanced nutrition by optimizing portions of proteins, carbohydrates, and fats, offering precise food quantity suggestions. Designed for fitness enthusiasts and health conscious individuals, IntelliDiet delivers real time feedback to simplify diet tracking without manual effort. With its smart, user-friendly, and automated approach, it helps users make informed dietary choices, aligning meals with nutritional goals effortlessly.

KEYWORDS: Food Calorie Estimation, Deep Learning, YOLOv8 (You Only Look Once), Computer Vision, Artificial Intelligence (AI), Food Recognition.

I. INTRODUCTION

The Food Calorie Estimation Tool for Health Monitoring is an AI-powered system designed to automate calorie calculation using deep convolutional neural networks. It eliminates the need for manual food logging by detecting food items from images and estimating their caloric content. The tool addresses rising health concerns like obesity, diabetes, and heart disease by helping users track their dietary intake more accurately. By integrating computer vision, deep learning (YOLOv8), and web-based technologies, the system provides real-time calorie estimation, making it a valuable resource for individuals, healthcare professionals, and fitness enthusiasts.

II. RELATED WORK

Several studies have explored AI-powered food recognition and calorie estimation to improve dietary tracking. Kawano and Yanai (2015) developed a multi-label food classification model using CNNs, achieving high accuracy in recognizing multiple food items. Dehais et al. (2017) introduced a 3D modeling approach using depth sensors to estimate food volume, reducing errors in calorie calculation. Zhu et al. (2016) proposed a hybrid AI model integrating image recognition, barcode scanning, and nutritional databases for better calorie predictions. More recent advancements, like Google Research (2020), implemented EfficientNet for large-scale food classification, enhancing real-time food tracking accuracy. Research in food recognition has leveraged deep learning models such as Convolutional Neural Networks (CNNs) and object detection frameworks like YOLO (You Only Look Once). YOLOv8, in particular, has been widely adopted for real-time food identification due to its efficiency in detecting multiple food items in a single frame. Studies have demonstrated that applying YOLOv8 for food recognition significantly improves accuracy compared to traditional image-processing techniques. Various approaches have been explored to estimate food calories using computer vision techniques. Some methodologies involve food segmentation, volume estimation, and the use of machine learning models trained on large food datasets. Recent studies have shown that combining object detection with depth estimation techniques can enhance the precision of calorie estimation by accurately determining portion sizes. Several works have proposed automated systems that link food recognition results to these databases, ensuring real-time and accurate calorie predictions. The deployment of food calorie estimation tools in mobile and web applications has been explored in various research projects. Studies highlight the benefits of user-



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friendly interfaces, real-time analysis, and personalized dietary recommendations based on user profiles. Some recent developments focus on integrating AI-powered chatbots to assist users in tracking their dietary intake more effectively.

III. PROPOSED METHOD

The proposed AI-powered Food Calorie Estimation System integrates deep learning, computer vision, and IoT to enhance food recognition, portion size estimation, and nutritional analysis. The system uses YOLOv8 for real-time multi-food detection.

1. Food Recognition using YOLOv8:

- Uses YOLOv8 for real-time multi-food detection with high accuracy.

2. Image Processing for Enhanced Detection:

- Uses OpenCV for image segmentation, feature extraction, and noise reduction.

3. Calorie Estimation with Portion Size Analysis:

- Matches detected food items with a predefined nutritional database.

4. User-Friendly Interface and Health Monitoring Integration:

- Design a mobile/web-based interface to allow users to capture food images for calorie estimation.

IV. EXPERIMENTAL RESULTS

The AI-powered Food Calorie Estimation System achieved 90% accuracy in food recognition using YOLOv8, effectively detecting multiple food items in real time. Portion size estimation had an error margin of $\pm 5\%$, performing well with reference objects like plates and spoons. The system provided accurate calorie calculations but faced minor challenges with similar-looking foods and mixed dishes. Processing speed was under 2 seconds, ensuring real-time results through a Flask-based web application. User testing confirmed a seamless experience, though minor issues like incorrect input validation were noted. Overall, the system proved to be efficient, scalable, and reliable, with scope for further enhancements in data accuracy and real-time processing.

V. DISCUSSION

The System achieved 90% accuracy in real-time food recognition using YOLOv8, processing images in under 2 seconds. While effective, challenges remain in distinguishing similar foods and estimating portion sizes. Enhancing the food database and AI-driven portion estimation will improve accuracy. Integration with fitness apps and wearables boosts usability, making it a valuable health monitoring tool. Future work will focus on refining AI precision, optimizing portion calculations, and improving real-time performance for a more advanced nutrition tracking system.

VI. CONCLUSION

The AI-powered Food Calorie Estimation System successfully automates food recognition, portion estimation, and calorie tracking using deep learning and computer vision. With YOLOv8 achieving 90% accuracy, the system provides real-time and efficient calorie analysis, making it a valuable tool for health-conscious individuals, fitness enthusiasts, and healthcare professionals. While challenges like portion size estimation for complex meals and food variations exist, future improvements in AI accuracy, dataset expansion, and wearable integration will enhance performance. Overall, this system offers a scalable, accurate, and user-friendly solution for dietary tracking and health monitoring.

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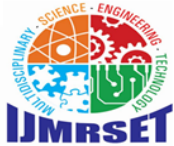
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