LITERATURE SURVEY

Dr. Kavita Sudersanadas, “APPLICATION OF ARTIFICIAL INTELLIGENCE ON NUTRITION ASSESSMENT AND MANAGEMENT”, EUROPEAN JOURNAL OF PHARMACEUTICAL AND MEDICAL RESEARCH, volume: 8, issue: 6, pp: 170-174, 2021.

Description:

The various ways through which AI can be applied for the nutrition assessment. Even though commercial AI-based nutritional assessment systems are available, many do not evaluate the nutrient intake, and the data available through them were not validated. Fat Secret is a commercially available AIbased food and nutrient assessment system that can evaluate the food's calorie content.

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Also, the major challenge posed by such systems is the availability of locally appropriate data sets.

Mrs. Karthiyayini J, Prapul Kumar A, Pawan Jenu, Pavan Kumar S, "Food and Nutrition Evaluation for the Visually Impaired", International Journal for Research in Applied Science & Engineering Technology (IJRASET), volume: 8, issue: V, pp: 1893-1896, May 2020.

Description:

In this paper, they apply a convolutional neural network (CNN) to the tasks of detecting and recognizing food images. Because of the wide diversity of types of food, image recognition of food items is generally very difficult. This

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paper applied CNN to the tasks of food detection and recognition through parameter optimization.

Sathiya T, Surya Prakash B, Thirukkumaran S V, Vijaiarivalagan K, “PREDICTION OF USER’S CALORIE ROUTINE USING CONVOLUTIONAL NEURAL NETWORK ”, International Journal of Engineering Applied Sciences and Technology, volume: 5, issue: 3, pp: 189195, July 2020.

Description:

This paper deals the user to control their food habit system and also gives information on how to burn calories in daily routines that makes user’s

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healthy. Convolutional Neural Network model is applied to classify food item from the input image and provides the accuracy of 91.65%.

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Karthik K, Vignesh K, M. Dhurgadevi,"Android Based Diet Consultant using Rule Pattern-based algorithm", Journal of Science Technology and Research (JSTAR), volume: 2, issue: 1,pp: 120-127, 2021.

Description:

This paper is based on Rete algorithm, it gives the Prediction/Suggestion of the food according to the attributes entered by the user. This system helps to the users to check their Body Mass Ratio and also helps to choose their own choice of food items according to their body type along with calorie calculation.

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Kavya Priya M L, Chaithra, Ganavi M, Shreyaswini P, Prathibha B, "An Innovative Application to Predict Malnutrition and Anemia using ML", International Journal of Advanced Research in Computer and Communication Engineering, volume: 10, issue: 7,pp: 71-75, July 2021.

Description:

In this paper, the main objective is forecasting malnutrition and anemia conditions of a child below five years of age. The system also predicts anemia and suggests suitable dietary recommendations for the users.