AI-POWERED NUTRITION ANALYZER FOR FITNESS ENTHUSIASTS

LITERATURE REVIEW

ABSTRACT:

Food is essential for human life and has been the concern of many healthcare conventions. Nowadays new dietary assessment and nutrition analysis tools enable more opportunities to help people understand their daily eating habits, explore nutrition patterns and maintain a healthy diet. Nutritional analysis is the process of determining the nutritional content of food. It is a vital part of analytical chemistry that provides information about the chemical composition, processing, quality control, and contamination of food.

SURVEY:1

Artificial intelligence in nutrients

Author: Jaroslaw sak andmagdalena suchodolska.

AI in research in production nutrients.

AI modeling has been identified with research organization of the production of several nutrients. Huang et al. define an artificial natural network shown by the production of a retinol derivative named acting laureate. It leads to the chair of the department of humanities and social medicine university of Lubin,20-093, Poland

It is the form of biomolecular resources research infrastructure Poland of medicine, Lubin of the medical university the address should be corresponded by the users.

SURVEY: 2

Artificial intelligence application in nutrition diabetics.

Author: Izzetulker.

It may be discussed among the discipline most of them are extensively important to the field function with scientific evidence it is good preparation and different apps will play a role important in health promotion. is a comprehensively nutritional assessment that explore the nutrition status it includes the dietary history (food recall food frequency which are questionaries in digital image technology to monitor of food like 38 physical examination

It is that the presence of a skilled nutritional specialist to interpret information obtained from the assessment is imperative.

SURVEY : 3

Author : Anahtar kelimeler – beslenme ve diyetetik;yapayzeka.

Artificial intelligence is increasing rapidly due to the medical field of diagnosis risk estimation and medical diagnosis. The research may be face many challenges when decided which method is the best. issues of participants' burden motivation and willingness to accurately report diet, and participation literacy and memory should be considered Also the time to enter and analyze diet data, and therefore the availability of resources to accurately analyze dietary recalls, must be taken into an account before starting all the method has some dietary assessment have limitations.

SURVEY: 4

Author: Kumar satanic, D; Yadav.D

AI in research on the production of nutrients.

Compiling the nonlinear nutrients among 16 nutrients as GA – FUZZY – a evolutionary algorithm is comprised of the genetic algorithm of and genetic algorithm. Where that the use of technology indicate the vitamin d on functioning. he used as the evolutionary of algorithm among genetic algorithm (GA)

And the fuzzy logic methodology(FLM) for the optimation of the production of phycobiliproteins(PBS)

From cyanobacteria

Most of the function is to prevent it biomedically by research on vitamins

SURVEY: 5

Author : Rozga m, Latulippeme,

Dietary Assignment nutrition,

Researchers have major challenges about assigning dietary intake the different methods such as 3 days record 24 – H recaller food frequency requirement. It is specified the special individual

Information found in science to promote dietary changes that positively affect health outcomes is the technology of the development function like nutrigenomics, nutrigenetics, metabolisms, and also foodmics it invites the new sight of the molecular level of data to improve some special invention of nutrition

REFERENCE:

1. Oka, R.; Nomura, A.; Kometani, M.; Gondoh, Y.; Yoshimura, K.; Yoneda, T.Study protocol for the effects of artificial intelligence { AI } – supported automated nutritional intervention on glycemic control in patients with 2 diabetes mellitus.

2. Kumar Saini, D.; rabbi, S.; Chhabra, D.; Shukla, P.Phycobiliproteins from Anabaena variabilis CCC421 and its production enhancement strategies using combinatory evolutionary algorithm approach.Bioresource.techno;.2020,309,123347.
3. Rozga M, Latulippe ME, Steiber A. “Advancements in personalized nutrition technologies: guiding principles for registered dietitian nutritionists’’ Jornal of the acdemy of nutrition and dietetics.
4. Haung, S.- M.; Li, H.-J.; Liu,Y.-C.; Kuo, C.;H.; Shieh,C.J An efficient approach for lipase – caralyzed synthesis of retinl laurate nutraceutical by combining ultrasound assistance anf artificial neural network ----- Genatic algorithm to optimize wheat germ fermentation condition: application to the production of two anti – tumor benzoquinones.