## NUTRITION ANALYSER FOR FITNESS ENTHAUSIEST

## **ARTIFICIAL INTELLIGENCE**

## **TEAM MEMBEERS:**

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S.NO	TITTLE	AUTHOR	YEAR OF PUBLICATION	PROBLEM IDENTIFIED	TECHNIQUES USED	
1.	Leveraging traditional crops for better nutrition and health - The case of chickpea	<u>ShahalAbbo</u> et.al.,	June 2017	Although poor feeding practices is a problem predominantly thought to exist in low-income and middle income countries, malnutrition is rapidly rising among developed nations as well.	In this context, and in light of scarcity of protein sources, utilization of cropssuch as chickpea-as a source of micro and macro nutrients is mandatory in the long route to nutritional improvement.	For all these reasons, this crop should be considered as an outstanding source of protein, the ultimate alternative to soybeans, as well as the next healthfood for human consumption.  View at infona.pl
2.	Machine learning and artificial intelligence based Diabetes Mellitus detection and selfmanagement: A systematic review	JyotismitaChaki et.al.,	Aug 2017	Diabetes Mellitus (DM) is a condition induced by unregulated diabetes that may lead to multi-organ failiure in patients	This review delivers an analysis of the detection, diagnosis, and self-management techniques of DM from six different facets viz., datasets of DM, pre-processing methods, feature extraction methods, machine learning-based identification, classification, and diagnosis of DM, artificial intelligence-based intelligent DM assistant and performance measures.	There are two drawbacks to this study. First, only papers written between January 2015 and March 2020 have been included in this study. Second, it might be that the authors have overlooked certain valuable keywords and certain bibliographic sources that might have some relevant papers

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3.	The forthcoming Artificial Intelligence (AI) revolution: Its impact on society and firms	Spyros Makridakis	June 2017	Will the forthcoming AI revolution produce similar, farreaching effects.	The paper concludes that significant competitive advantages will continue to accrue to those utilizing the Internet widely and willing to take entrepreneurial risksin order to turn innovative products/services into worldwide commercial success stories.	The greatest challenge facing societies and firms would be utilizing the benefits of availing AI technologies, providing vast opportunities for both new products/services and immense productivity improvements while avoiding the dangers and disadvantages in terms of increased unemployment and greater wealth inequalities.
4.	A Survery on Automated food Monitoring and Dietary Management System	Vieira Bruno	Aug 03 2017	In order to provide users feedback with nutritional information accompanied by insightful dietary advice, various techniques in light of the key computational learning principles have been explored.	the goal to conquer drawbacks of the traditional manual food journaling that is time consuming, inaccurate, underreporting, and low adherent.	the prevention of life-threatening diseases such as obesity, cardiovascular disease, and cancer.
5.	A review on IoT based m- Health systems for diabetes	diabetesSankalp Deshkar	Jan 2017	Long-term diabetes care requires involvement from patients as well as doctors and family caregivers	With rapid advancements in wireless and web technologies, a number of applications based on Internet of Things have been proposed for management of diabetes.	We analyze the working and underlying architecture of these latest applications and discuss the major issues and challenges faced by them.

S.N O	TITTLE	AUTH OR	YEAR OF PUBLICAT ION	PROBLEM IDENTIFI ED	TECHNIQ UES USED	DRAWBA CKS
1.	Artificial intelligence for diabetes management and decision support: literature review	Ivan Contrera s, Josep Vehi	Dec 2018	The objective of this paper is to review recent efforts to use artificial intelligence techniques to assist in the management of diabetes, along with the associated challenges.	A review of the literature was conducted using PubMed and related bibliographic resources. Analyses of the literature from 2010 to 2018 yielded 1849 pertinent articles, of which we selected 141 for detailed review. Results	Our results indicate that artificial intelligence methods are being progressively established as suitable for use in clinical daily practice, as well as for the self-management of diabetes. Consequentl y, these methods provide powerful tools for improving patients' quality of life.
2.	Food, microbiome and colorectal cancer	Lukas Niederreiter et.al.,	June 2018	This adage has been confirmed by many studies demonstratin g the high impact of nutrition on risk of cardiovascula r diseases, many malignancies and other diseases	Various aspects are involved in colorectal carcinoma pathogenesis including genetics, lifestyle, age, chronic inflammation and others	It has only recently been recognized that the gut microbiota might reflect an important missing link in the interaction between diet and subsequent

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3.	Recommendations	Neil P	Mac	the prominent	Both	<b>T</b> I
	to	Walsh	2018	risk factors and	innat	The
	maintain immune	et.al.,		appropriate	e and	various challenges
	health in athletes			countermeasures.	acquired	that athletes
				Recent studies	immunity are	encounter on
				have identified	often	immune
				prominent	reported	health, including:
				risk factors,	to	heavy exercise; life
				including:	decrease	stress; sleep
				intensified training	transiently in	disruption;
				in the winter;	the hours	environment al
				long-haul travel;	after	extremes and
				low energy	heav	nutritional deficits.
				availability; high	y exertion,	
				levels of ps	typically 15-	
					70%:	
					prolonged	
					heavy	
					training	
					sessions in	
					particular	
					have been	
					shown to	
					decrease	
					immune	
					function;	
					potentially	
					providing an	
					'open	
					window' for	
					opportunistic	
					infections.	

	4.	The role of diet in multiple sclerosis: A review	Sabrina Esposito et.al.,	July 2018	Since nutritional status and dietary habits in MS patients have not been extensively reported, the lack of a scientificbased consensus on dietary	This work investigates the health implications of an unbalanced diet in MS, and collects recent findings on	the disease and to encourage future studies demonstrati ng the role of a healthy diet on the onset and course of MS.
_		sclerosis: A review	et.al.,		patients have not been extensively reported, the lack of a scientificbased	implications of an unbalanced diet in MS, and collects	demonstrati ng the role of a healthy diet on the onset

5.	Heavy metal	Shoshan	April	Infection by	The	While further
J.	exposure and	nah	2018	methicillinresistant	analytical	research is needed,
	nasal	Eggers	2010	Staphylococc us	sample	reduction in heavy
	Staphylococc us	et.al.,		aureus (MRSA) is a	consisted of	metal exposures
	aureus	- Cera,		major cause of	18,626	such as lead,
	colonization:			global morbidity	participants	concurrently with
	analysis of			and mortality	aged 1 year	maintaining a
	the National			and mortality	and older.	healthy microbiota
	Health and				Multivariate	may be two
	Nutrition				logistic	modifiable options
	Examination				regression,	to consider in the
	Survey				including	fight against
	(NHANES)				adjustment	antibioticresistance.
	,				for	
					demographic	
					and dietary	
					factors, was	
					used to	
					analyze the	
					association	
					between	
					blood Pb and	
					Cd, and nasal	
					colonization	
					by MRSA and	
					MSSA.	