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Dr. Abdul Khayum K is currently working as Clinical Pharmacologist in Credo Health Services, Bengaluru. He completed his PhD in Pharmacology from The Tamil nadu Dr. MGR Medical University, Chennai. He has completed 11 projects and has 8 ongoing projects. He holds 10 publications. He worked as an Assistant Professor in Karpagam University. He attended various International and National conferences, FDP and CME Programmes. He is also a good sports personality.

ABSTRACT:

Role of Artificial Intelligence and Data Science in Healthcare Industry – Ushering a New Era of Precision Care

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Artificial intelligence and data science plays a vital role in modern healthcare Industry. It requires technical skill to perform data processing, analysis, and visualization in multiple real-time applications. At Credo Health, we provide intelligent chronic disease management solutions catering to diseases like type 2 diabetes, hypertension, obesity, chronic kidney disease and cardio-vascular diseases. Our technology enables us to predict, prevent, delay and reverse chronic disease conditions.

Credo uses technologies to collect biomarkers using sensors such as CGM (continuous glucose monitoring) to continuously monitor interstitial glucose levels in patient for 14 days. Additionally, we also study the impact of other parameters such as activity levels, sleeping hours, water and nutritional intake including macro-and micronutrients on the glycaemic levels of the patient. Data analytics provides futuristic values and outcomes in glycaemic levels for the individual member. Credo also uses advanced technologies like OCR (Optical character recognition) technique to capture data from the medical prescriptions and reports as well. AI computes vital information provided by patients to predict health and future risk scores thus suggesting changes in diet and lifestyle which subsequently minimizes the modifiable risk factors in patients. Credo health has mapped specific algorithms such asspeech and image recognition technology to cumulate, document and analyze the nutritional pattern and depicts patients' emotional status. Credo health assist chat bot aids in assisting patients with simple rudimentary queries to sophisticated levels of personalized responses.

The advent of AI and data science has a complete transformation in the traditional Healthcare industry. The AI technology in medicine mixed with mobile application is helping to organize precise treatment plans for patients.