(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/12/2023

(21) Application No.202311086035 A
(43) Publication Date : 19/01/2024

(54) Title of the invention : A MACHINE LEARNING BASED DISEASE PREDICTION SYSTEM AND METHOD

(51) International classification :G06N0020000000, G16H0050200000, G16H0050700000, G16H0050300000, G06N0003080000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
The present invention provides a machine learning-based disease prediction system (100) integrates cutting-edge modules for comprehensive health insights. It encompasses a data acquisition module, adept at gathering and preprocessing diverse health data from multiple sources. The feature extraction module (102) utilizes advanced machine learning techniques to identify relevant patterns, fostering nuanced correlations within the data. The model training module (103) ensures accuracy by robustly training an interpretable machine learning module with labelled datasets. A real-time monitoring module (104) continuously adapts to evolving health trends, enhancing prediction accuracy. The output interface module (105) presents disease risks comprehensibly to users. This system (100) pioneers accurate, adaptive, and user-friendly disease prediction for proactive healthcare management.

No. of Pages : 26 No. of Claims : 10