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(54) Title of the invention : A HEART DISEASE PREDICTION SYSTEM USING CLASSIFICATION ALGORITHM

<p>(51) International classification :G16H0050200000, G06N0020000000, G06F0018241300, G16H0050700000, G06N0020200000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : <b>1)NOIDA INSTITUTE OF ENGINEERING &amp; TECHNOLOGY</b> Address of Applicant :19, KNOWLEDGE PARK-II, INSTITUTIONAL AREA, GREATER NOIDA-201306, GAUTAM BUDDHA NAGAR, UTTAR PRADESH, INDIA Gautam Buddha Nagar ----- <b>Name of Applicant : NA</b> <b>Address of Applicant : NA</b></p> <p>(72)Name of Inventor : <b>1)ADITYA TANDON</b> Address of Applicant :NOIDA INSTITUTE OF ENGINEERING &amp; TECHNOLOGY, 19, KNOWLEDGE PARK-II, INSTITUTIONAL AREA, GREATER NOIDA-201306, GAUTAM BUDDHA NAGAR, UTTAR PRADESH, INDIA Gautam buddha Nagar ----- <b>2)ABHISHEK PRATAP SINGH</b> Address of Applicant :NOIDA INSTITUTE OF ENGINEERING &amp; TECHNOLOGY, 19, KNOWLEDGE PARK-II, INSTITUTIONAL AREA, GREATER NOIDA-201306, GAUTAM BUDDHA NAGAR, UTTAR PRADESH, INDIA Gautam buddha Nagar ----- <b>3)DR. KUMUD SAXSENA</b> Address of Applicant :NOIDA INSTITUTE OF ENGINEERING &amp; TECHNOLOGY, 19, KNOWLEDGE PARK-II, INSTITUTIONAL AREA, GREATER NOIDA-201306, GAUTAM BUDDHA NAGAR, UTTAR PRADESH, INDIA Gautam buddha Nagar ----- <b>4)ADITEE MATTOO</b> Address of Applicant :NOIDA INSTITUTE OF ENGINEERING &amp; TECHNOLOGY, 19, KNOWLEDGE PARK-II, INSTITUTIONAL AREA, GREATER NOIDA-201306, GAUTAM BUDDHA NAGAR, UTTAR PRADESH, INDIA Gautam buddha Nagar -----</p>
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(57) Abstract :  
Disclosed herein is a heart disease prediction system using classification algorithm (100) comprises a patient data acquisition module (102), configured to receive and process a dataset comprising medical attributes. The system also includes a preprocessing unit (104), configured to clean, normalize, and encode the received data to prepare it for training and testing in machine learning models. The system also includes a classification engine (106), comprising a logistic regression model, a K-nearest neighbours (KNN) classifier, and a random forest algorithm. The system also includes an evaluation module (108), configured to compare the performance of said classification models based on one or more accuracy metrics. The system also includes a model selection unit (110), configured to automatically select the most accurate model among the trained classification models for real-time prediction tasks.

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