

(54) Title of the invention : A SMART AI-BASED MULTISPECIALTY CLINICAL SCREENING SYSTEM

<p>(51) International classification</p> <p>(31) Priority Document No</p> <p>(32) Priority Date</p> <p>(33) Name of priority country</p> <p>(86) International Application No</p> <p style="padding-left: 20px;">Filing Date</p> <p>(87) International Publication No</p> <p>(61) Patent of Addition to Application Number</p> <p style="padding-left: 20px;">Filing Date</p> <p>(62) Divisional to Application Number</p> <p style="padding-left: 20px;">Filing Date</p>	<p>(71)Name of Applicant :</p> <p><b>1)DR KRISHNANAND P S</b>  Address of Applicant :ASSOCIATED DEAN UNDER GRADUATE  ACADEMICS, PROFESSOR AND HEAD, DEPARTMENT OF ORAL AND  MAXILLOFACIAL PATHOLOGY DAYANANDA SAGAR COLLEGE OF  DENTAL SCIENCES, SHYAVIGE MALLESHWARA HILLS,  KUMARASWAMY LAYOUT, BANGALORE 560078, KARNATAKA  Karnataka India</p> <p><b>2)DR. KODURU SRAVANI</b></p> <p><b>3)DR. MOHAMED NIZAM AL DEAN SHAH</b></p> <p><b>4)RANJITHA NAVEEN HEGDE</b></p> <p><b>5)RACHANA MHETRE</b></p> <p><b>6)DR. ANUPAMA ARADYA</b></p> <p><b>7)DR. JAYASHANKAR. B. V</b></p> <p><b>8)DR SANGEETHA K M</b></p> <p><b>9)SWATHI C SHETTY</b></p> <p><b>10)PRIYANKA K SHETTY</b></p> <p>(72)Name of Inventor :</p> <p><b>1)DR KRISHNANAND P S</b></p> <p><b>2)DR. KODURU SRAVANI</b></p> <p><b>3)DR. MOHAMED NIZAM AL DEAN SHAH</b></p> <p><b>4)RANJITHA NAVEEN HEGDE</b></p> <p><b>5)RACHANA MHETRE</b></p> <p><b>6)DR. ANUPAMA ARADYA</b></p> <p><b>7)DR. JAYASHANKAR. B. V</b></p> <p><b>8)DR SANGEETHA K M</b></p> <p><b>9)SWATHI C SHETTY</b></p> <p><b>10)PRIYANKA K SHETTY</b></p>
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(57) Abstract :

ABSTRACT Disclosed herein is a smart AI-based multispecialty clinical screening system (100), the system (100) comprises an input acquisition module (102) configured to receive patient-related healthcare data. A preprocessing module (104) configured to perform data normalization, enhancement, filtering, segmentation, feature extraction, and multimodal data alignment. An artificial intelligence-based analytical module (106) configured to apply machine learning models, deep learning models, and predictive analytics algorithms. A clinical correlation module (108) configured to integrate and correlate outputs. A risk stratification module (110) configured to determine severity levels, prioritize suspected pathological conditions, and generate patient-specific risk scores. A recommendation module (112) configured to generate automated clinical screening recommendations. A visualization and reporting module (114) configured to generate interactive dashboards, annotated medical images, screening summaries, and specialty-wise clinical reports. A communication module (116) configured to transmit the generated screening assessment, risk scores, and recommendations.

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