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(54) Title of the invention : A MODEL TO PREDICT VITAL SIGN USING MACHINE LEARNING

<p>(51) International classification :A61B0005000000, A61B0005024000, A61B0005020500, A61B0005080000, G16H0050200000</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 : 1)Dr.M.S.Nidhya Address of Applicant :Associate Professor, Department of IT, School of CS & IT, Jain(Deemed-to-be University), Bangalore, Karnataka, India 560069. -----</p> <p>2)Dr.A.Kannagi 3)Dr.R.Arumugam 4)Dr A.Arul Mary 5)Mrs.M.Rajathi 6)Mrs.S.Manjula Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Dr.M.S.Nidhya Address of Applicant :Associate Professor, Department of IT, School of CS & IT, Jain(Deemed-to-be University), Bangalore, Karnataka, India 560069. -----</p> <p>2)Dr.A.Kannagi Address of Applicant :Associate Professor, Department of IT, School of CS & IT, Jain(Deemed-to-be University), Bangalore, Karnataka, India 560069. -----</p> <p>3)Dr.R.Arumugam Address of Applicant :Assistant Professor, Department of Mathematics, Periyar Maniammai Institute of Science and Technology, Thanjavur , Tamilnadu, India 613403. -----</p> <p>4)Dr A.Arul Mary Address of Applicant :Assistant professor, Annai Vailankanni arts and science college, Thanjavur, Tamil Nadu, India 613006. -----</p> <p>5)Mrs.M.Rajathi Address of Applicant :Assistant Professor, Department of Software Engineering, Periyar Maniammai Institute of Science and Technology, Thanjavur , Tamil Nadu, India 613403. -----</p> <p>6)Mrs.S.Manjula Address of Applicant :Assistant Professor, Department of Software Engineering, Periyar Maniammai Institute of Science and Technology, Thanjavur , Tamil Nadu, India 613403. -----</p>
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(57) Abstract :

ABSTRACT OF THE INVENTION Vital Sign Prediction (VSP) model will predict the symptoms of the patient by continuous monitoring wearable devices. It predicts a vital sign in two intervals one is time interval of data collection and interval between min and max value moments. The mean, median, max, min and standard deviation computed for each set of vital sign. A collection of three to four features were extracted per vital sign. Our model will predict future values of monitored vital sign. Each set train logistic regression model, Incidence based learning algorithm (IBL) predicts the future sign or symptoms and inform to the medical advisor as earlier as possible. Our model will predict Mean arterial pressure, heart rate, respiratory rate and temperature.

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