Exploration of Viral Diseases mortality risk using machine learning

Dr. Pawan Whig

[1]Senior IEEE Member
[1]Vivekananda Institute of Professional Studies , New Delhi, India
[1] pawanwhig@gmail.com*
* corresponding author

ARTICLE INFO

Article History:
Received January 1, 2018
Revised January 31, 2019
Accepted Feb 12, 2019

Keywords:
Viral disease ,ai ,ml ,iot, svm

Correspondence:
E-mail: pawanwhig@gmail.com

ABSTRACT

During a pandemic, early prediction of patient mortality risks can reduce mortality by ensuring effective resource allocation and treatment planning. The purpose of this study was to create and compare prognosis prediction machine learning models based on invasive laboratory and noninvasive clinical and demographic data collected on the day of admission for patients. Three Support Vector Machine (SVM) models were created and compared using invasive, non-invasive, and both groups of patients. The findings showed that non-invasive characteristics might offer mortality estimates comparable to invasive features and about on par with the joint model.

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