Prediction of DISEASES IN HEALTHCARE

Using Machine Learning Techniques

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ISBN-13: 978-93-91462-95-6 FIRST EDITION, JULY 2023, INDIA

Printed & Published by: VSRD Academic Publishing (A Division of Visual Soft India Pvt. Ltd.)

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Printed & Bound in India

VSRD ACADEMIC PUBLISHING

A Division of Visual Soft India Pvt. Ltd.

REGISTERED OFFICE

154, Tezab mill Campus, Anwarganj, KANPUR–208003 (UP) (IN) Mb:9899936803, Web: www.vsrdpublishing.com, Email: vsrdpublishing@gmail.com

MARKETING OFFICE

340, FF, Adarsh Nagar, Oshiwara, Andheri(W), MUMBAI–400053 (MH) (IN) Mb:9956127040, Web: www.vsrdpublishing.com, Email: vsrdpublishing@gmail.com

PREFACE

India has one of the highest burdens of cardiovascular disease (CVD) worldwide. The annual number of deaths from CVD in India is projected to rise from 2.26 million (1990) to 4.77 million (2020). Coronary heart disease prevalence rates in India have been estimated over the past several decades and have ranged from 1.6% to 7.4% in rural populations and from 1% to 13.2% in urban populations. Breast cancer is on the rise, both in rural and urban India. A 2018 report of Breast Cancer statistics recorded 1.62.468 new registered cases and 87.090 reported deaths. Diabetes is high and increasing globally. and in developing economies like India. The estimates in 2019 showed that 77 million individuals had diabetes in India, which is expected to rise to over 134 million by 2045. Approximately 57% of these individuals remain undiagnosed.

Machine learning (ML) can bring an effective solution for decision making and accurate predictions. Classification like Logistic Regression. Random models Forest Classifier. Support Vector Machine, Decision Tree Classifier provide a decision support system to detect and predict these diseases in humans or individuals using various risk factors. Prediction of Disease using Machine Learning based system which primarily works according to the symptoms given by a user. The disease is predicted using algorithms and comparison of the datasets with the symptoms provided by the user.

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