A

Major Project Report

on

PREDICTION AND PROVIDING MEDICATION FOR THYROID DISEASE USING MACHINE LEARNING TECHNIQUES (SVM)

Submitted to

Jawaharlal Nehru Technological University, Hyderabad

in partial fulfillment of the requirements for the award of Degree of

Bachelor of Technology

in

Computer Science & Engineering

by

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

<u>CERTIFICATE</u>

This is to certify that the project entitled **"PREDICTION AND PROVIDING MEDICATION FOR THYROID DISEASE USING MACHINE LEARNING TECHNIQUES (SVM)"** is submitted by *U. Shirisha (196Y1A05A5), SD. Naziya (196Y1A0599), M. Sai Anjani (206Y5A0504) and P. Indu (196Y1A05B9)* in the partial fulfillment of requirement for the award of degree of Bachelor of Technology in Computer Science and Engineering during academic year 2022-23.

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ABSTRACT

A complex premise in the field of medicine is that thyroid disorders are the major cause of medical diagnosis and prediction. The thyroid gland is one of our body's most important organs. Metabolism is regulated by the release of thyroid hormones. Both overproduction and underproduction of thyroid hormones affect the body's ability to regulate its metabolism. The application of machine learning in illness prediction and in the study of classification models for thyroid disease based on data from hospital datasets is crucial. To deal with dynamic learning activities like medical diagnosis and predication, it is necessary to ensure, build, and apply a decent knowledge base as a hybrid model. Thyroid may be detected and inhibited using simple machine learning approaches. Predicting the likelihood of a thyroid patient using an SVM model is common practice. Whenever a patient is at risk for developing thyroid disease, our system must propose home remedies, warnings and medicine.

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