

CANCER DIAGNOSIS USING MACHINE LEARNING

*A project report submitted in partial fulfillment of the requirements for the award of the
Degree of*

BACHELOR OF TECHNOLOGY

In

COMPUTER SCIENCE AND ENGINEERING

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MAKAVARAPALEM, NARSIPATNAM,

VISAKHAPATNAM-531113

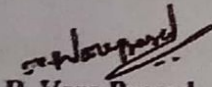
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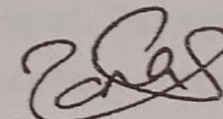
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CERTIFICATE

This is to certify that the project entitled "CANCER DIAGNOSIS USING MACHINE LEARNING" in partial fulfillment for the of degree of Bachelor of Technology in COMPUTER SCIENCE AND ENGINEERING, at AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, MAKAVARAPALEM, VISAKHAPATNAM is a bonafied work carried out by Ramya Sri Varanasi (17811A0551), Sri Ram Sai Neelakanta (17811A0536), Upendra Munikumar (17811A0533), Raju Babu Gompa (18815A0501) under the guidance and supervision during 2020-2021.


S.V.R. Vara Prasad
Project Guide


U. Nanaji
Head of the Department

External Examiner

PROPOSED SYSTEM

To get the prediction of cancer in early stages using ML algorithms and to give the fast predictions using various test cases with the different algorithms.

In this project we carried out various algorithms and test cases where the victim should get a early detection and diagnosis for the disease.

Using the screening test and biopsy the algorithm should detect the type and stage of cancer where the screening images are high resolution.

2. Literature Review

Literature survey is the most important step in software development process. Before developing the tool it is necessary to determine the time factor, economy n company strength. Once these things r satisfied, ten next steps are to determine which operating system and language can be used for developing the tool. Once the programmers start building the tool the programmers need lot of external support. This support can be obtained from senior programmers, from book or from websites. Before building the system the above consideration r taken into account for developing the proposed system.

Overview

The main objective of ML techniques is to produce a model which can be used to perform classification, prediction, estimation or any other similar task. The most common task in learning process is classification. As mentioned previously, this learning function classifies the data item into one of several predefined classes. When a classification model is developed, by means of ML techniques, training and generalization errors can be produced. The former refers to misclassification errors on the training data while the latter on the expected errors on testing data. A good classification model should fit the training set well and accurately classify all the instances. If the test error rates of a model begin to increase