

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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**AVANTHI INSTITUTE OF ENGINEERING &
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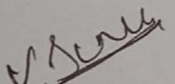
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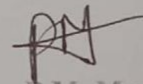


CERTIFICATE

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, VISA KHAPATNAM is an Bonafied work carried out by A.DaliDeepika (16811A0504), B.Ramya (16811A0509), D.S.G.Charan (16811A0518), D.Harika Ramani (16811A0520), G.Srinivasarao (16811A0523) under the guidance and supervision during 2019-2020.


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ABSTRACT

Machine learning is increasingly being employed in cancer detection and diagnosis. Cancer prediction will become quite easy in the future and we can predict it without the need of going to the hospitals. As we can see many technologies are being used and tested in the medical field. So, by this we can say that this will make us easier in the future to detect cancer. We are testing which algorithm will give us good result among CART, SVM AND KNN. We are making a cancer prediction using machine learning, in which we are including three types of cancer they are breast cancer, lungs cancer and prostate cancer. In breast cancer, we are using SVM algorithm and for lung and prostate we are using Random forest algorithm. We are going to give different attributes for three cancer system where the user has to enter data to get result. For breast cancer we are considering attributes like clump thickness, uniform cell size, uniform cell shape etc. and the prediction result will be whether the cancer is malignant or benign. For lung cancer, we are considering smoking, yellow fingers, anxiety, peer pressure etc. In prostate cancer, we are considering are radius, texture, perimeter, area etc. and the result for both cancer is likelihood of being affected by the cancer.