



Aditya College of Engineering & Technology

Aditya Nagar, ADB Road, Surampalem - 533437

DEPARTMENT OF INFORMATION TECHNOLOGY

B. Tech 4/4, II-SEMESTER

II Semester 2021-22

SYMPTOMS BASED INTELLIGENT DISEASE PREDICTION SYSTEM USING DECISION TREE

ABSTRACT

Medicine and healthcare are some of the most crucial parts of the economy and human life. There is a tremendous amount of change in the world we are living in now and the world that existed a few weeks back. Everything has turned gruesome and divergent. In this situation, where everything has turned virtual, the doctors Medicine and health care are some of the most crucial parts of the economy and human life. There is a tremendous amount of change in the world we are living in now and the world that existed a few weeks back. Everything has turned gruesome and divergent. In this situation, where everything has turned virtual, the doctors and nurses are putting up maximum efforts to save people's lives even if they have to danger their own. There are also some remote villages which lack medical facilities. The main theme of this project is "To predict the disease based on the symptoms", The traditional way of diagnosis may not be sufficient in the case of pandemic condition .So we use this data set to train the model , which gives the type of disease occurs based on their symptoms. Here we use Decision Tree algorithm to create a model, we compare those two models to know which gives the best accuracy. In this we use features called Precision, Accuracy, Recall, F1 Score to measure the accuracy of data

Course Outcomes (COs)

Course Outcomes

After completing this course, the student will be able to:

CO Number	CO Statement	Taxonomy
CO1	Demonstrate the technical knowledge to identify problems in the field of Information Technology and its allied areas.	Understand
CO2	Use literature to identify the objective, scope and the concept of the work.	Apply
CO3	Analyze and formulate technical projects with a comprehensive and systematic approach.	Analyse
CO4	Identify the modern tools to implement technical projects.	Evaluate
CO5	Design engineering solutions for solving complex engineering problems.	Create
CO6	Develop effective communication skills, professional behaviour and team work.	Understand

CO-PO/PSO MATRIX:

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3
CO1	3	2	1	2					3	2	2	2	3	2	1
CO2	2	1	2	2	1				3	2	2	2	3	3	
CO3	2	3	2	2	1				3	2	2	2	2	2	
CO4	3	1	3	2	3				3	2	2	2	2	3	1
CO5	2	2	3	3	1				2	2	1	2	2	1	1
CO6	1	1	1	2	1				2	3	2	2	1	1	2
Course	2.2	1.7	2.0	2.2	1.2				2.7	2.2	1.8	2.0	2.2	2.0	0.8

PO1	Engineering Knowledge	PO7	Environment & Sustainability
PO2	Problem Analysis	PO8	Ethics
PO3	Design / Development of Solutions	PO9	Individual & Team Work
PO4	Conduct Investigations of complex problems	PO10	Communication Skills
PO5	Modern Tool usage	PO11	Project Management & Finance
PO6	Engineer & Society	PO12	Life-long Learning