NARASARAOPETA ENGINEERING COLLEGE

(AUTONOMOUS)

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

2023-2024

BATCH NUMBER	BG9
TEAM MEMBERS	CH.Poojitha(20471A0573) B.Vandana (20471A0571) M.Sandhya(20471A0597)
GUIDE	Dr.M.Sireesha.
TITLE	Prediction of ThyroidDisease
DOMAIN/TECHNOLOGY	MACHINE LEARNING
BASEPAPER LINK	https://ieeexplore.ieee.org/abstract/document/9811472
DATASET LINK	https://www.kaggle.com/code/yasserhessein/thyroid-disease-detection-using-deep-learning
SOFTWARE REQUIREMENTS	Operating System:Windows 10 Home,64-bit Operating system Coding Language:Python Python distribution:Anoconda,Google Colab
HARDWARE REQUIREMENTS	CPU:Intel Corei7,AMD Ryzen RAM:8GB Storage:SSDs(500GB to 1TB SSD) GraphicsProcessingUnit(GPU)

ABSTRACT	Detecting and predicting thyroid disease is increasingly vital across men,women and even in children. .Classification and data mining methods are an effective way to classify data in medical In this project we employ machine learning algorithms, specifically K-Nearest Neighbors (K-NN), Decision Tree (DT), and Multilayer Perceptron (MLP) models. where these methods are widely used in diagnosis and analysis to make decisions. By utilizing a robust dataset, we aim to train 70% of dataset and test 30% of the dataset.Acessing the accuracy and area under the curve will provide valuable insights, aiding doctors in diagnosing thyroid diseases early and potentially preventing the development of thyroid cancer.

SignatureofTeamMembers **SignatureoftheGuide** **SignatureoftheProjectCoordinator**