ARIGNAR ANNA GOVERNMENT ARTS COLLEGE VILLUPURAM-605 602



Department of computer of applications

MACHINE LEARNING WITH PYTHON

Project Title: Thyroid Disease classification using ML

Team Id:

Team Leader: M. MUTHURAMAN

(4C9ED657E973412895E4DDB64B246A2E)

Team Members: M.PREMKUMAR

(3AE810950D4EEEEB68B45B1D58C2E69D)

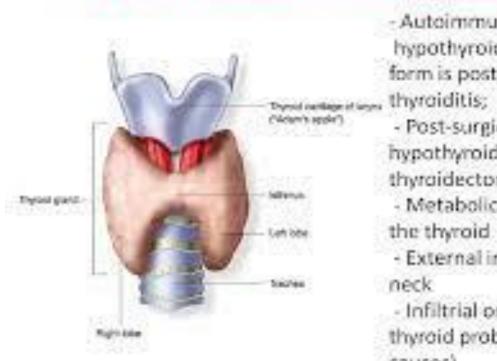
Team Members: J. RAGUNATH

(57E55B4164972BBB2FB4A732A0BDEA0E)

Team Members: R. RAJAMANI

Abstract:

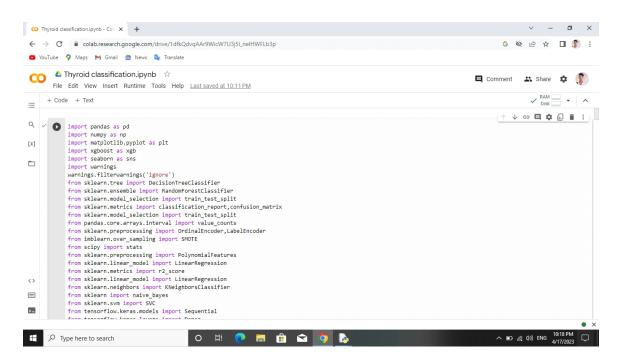
Hypothyroidism, classification



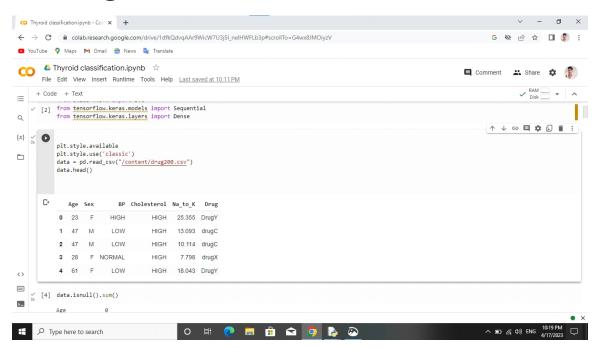
- Autoimmune thyroiditis hypothyroidism, such as form is postpartum thyroiditis;
- Post-surgical hypothyroidism, after total thyroidectomy,
- Metabolic radiotherapy of the thyroid
- External irradiation of the neck
- Infiltrial or infectious thyroid problems (thyroiditis causes)
- Thyroid dysgenesis

Thyroid disease is a general term for a medical condition that keeps your thyroid from making the right amount of hormones. Your thyroid typically makes hormones that keep your body functioning normally. When the thyroid makes too much thyroid hormone, your body uses energy too quickly. This is called hyperthyroidism.

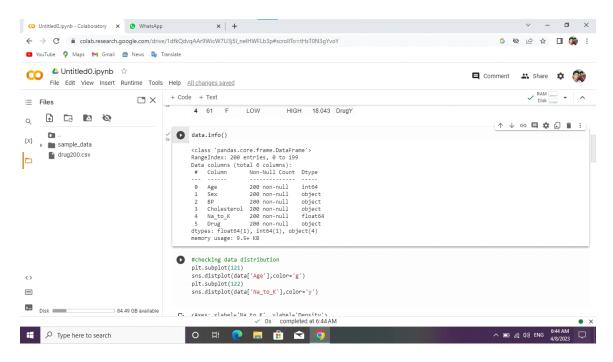
Import libraries



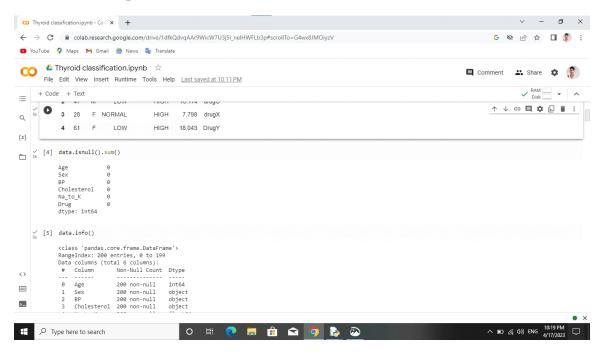
Reading .CSV File



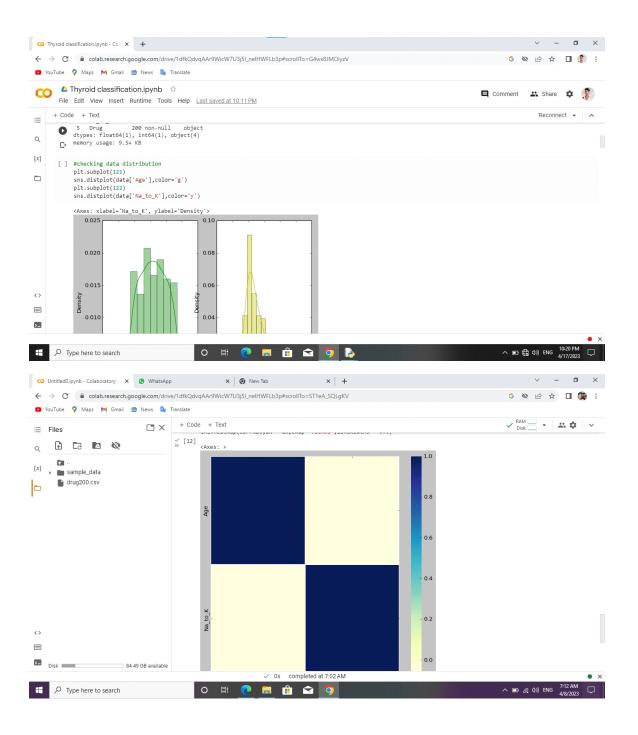
data info:

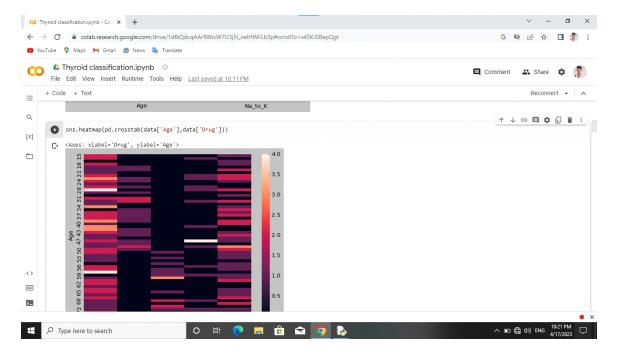


Checking null values:

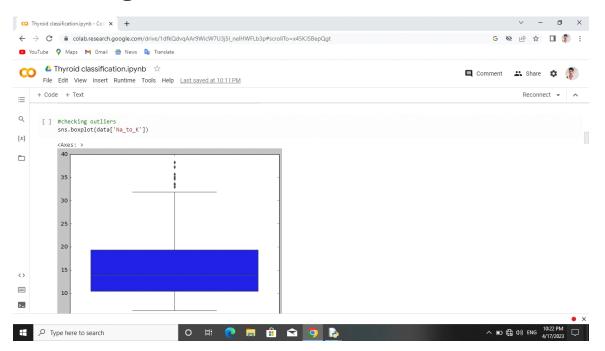


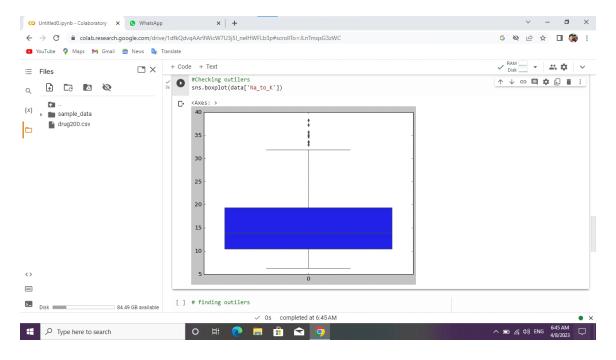
Checking data distribution:



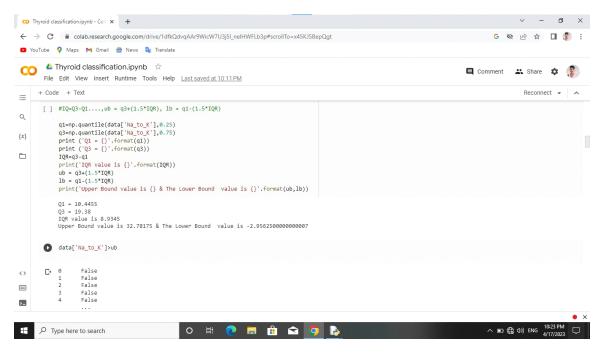


Checking outlier:

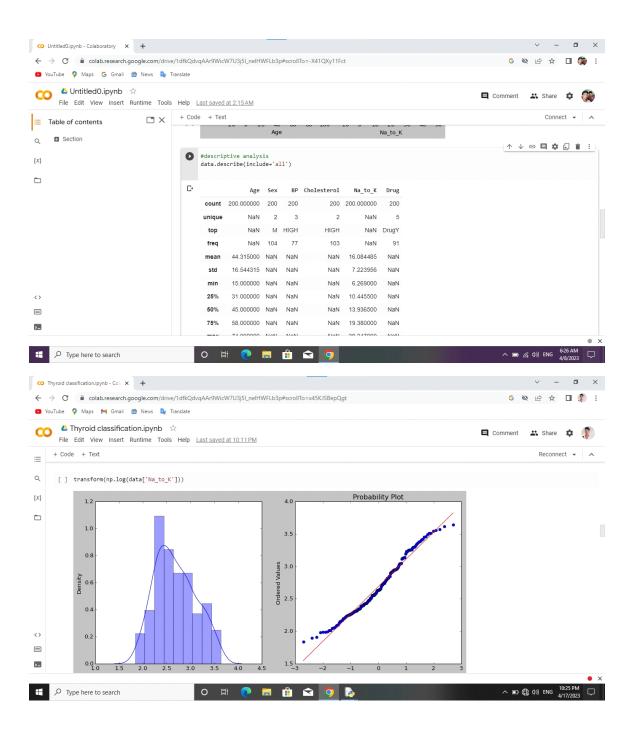


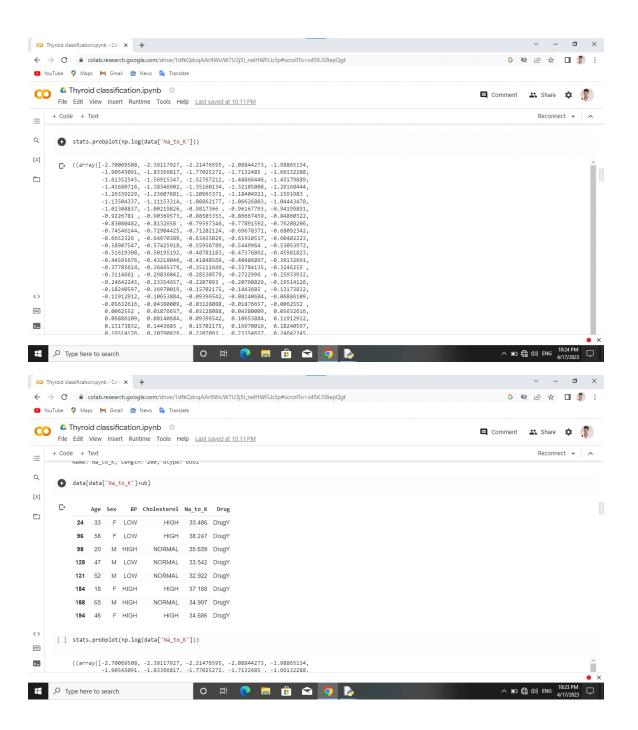


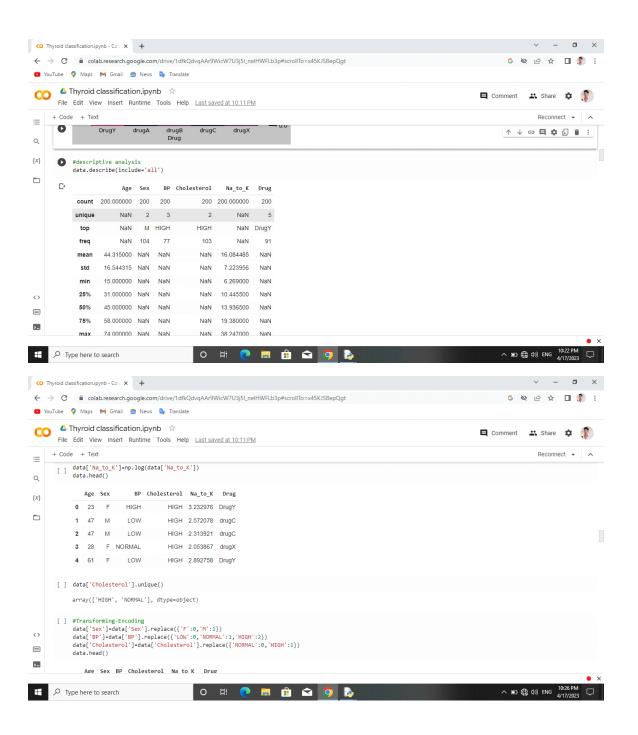
Deleting outliers:

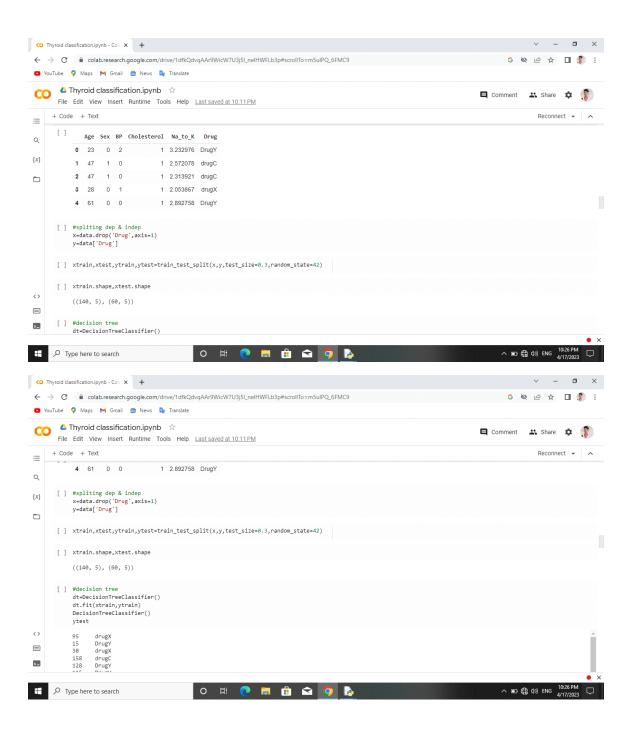


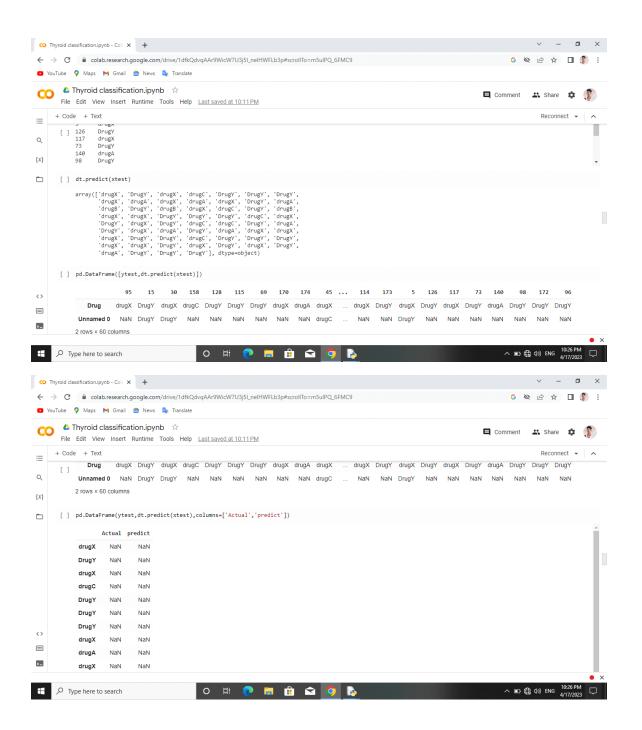
descripitive analysis:

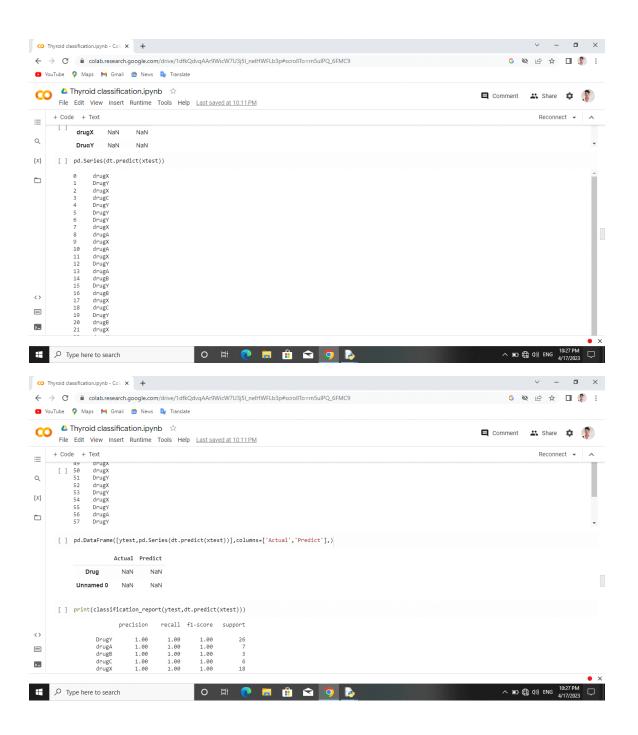


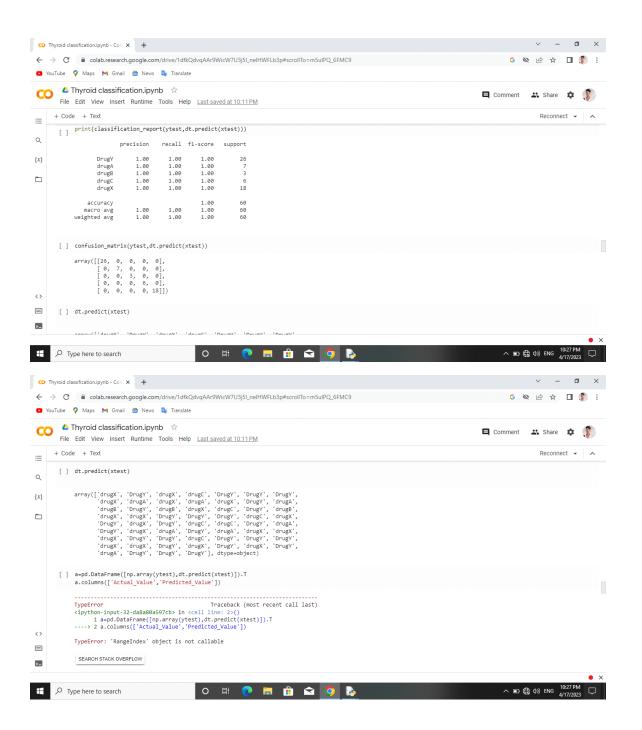


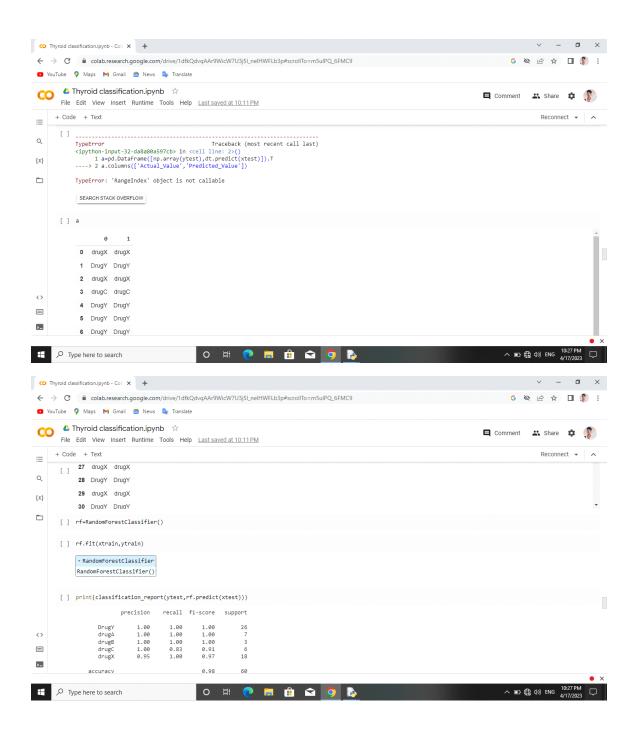


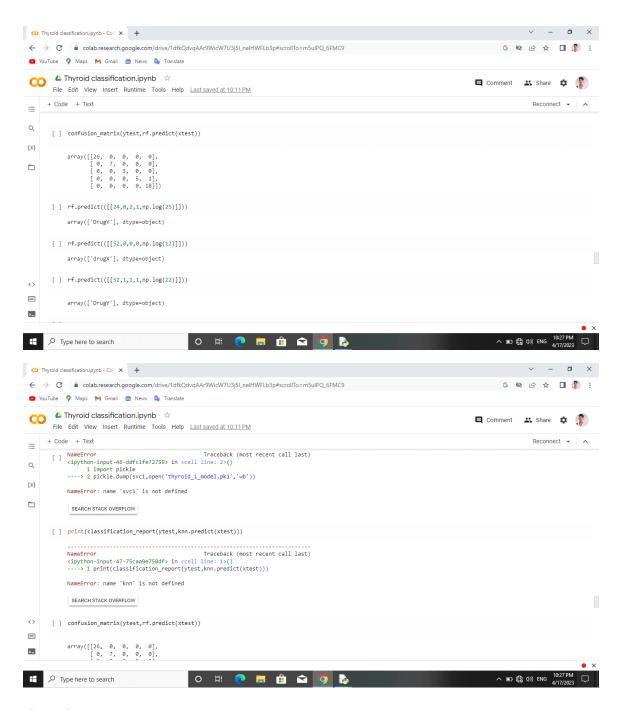




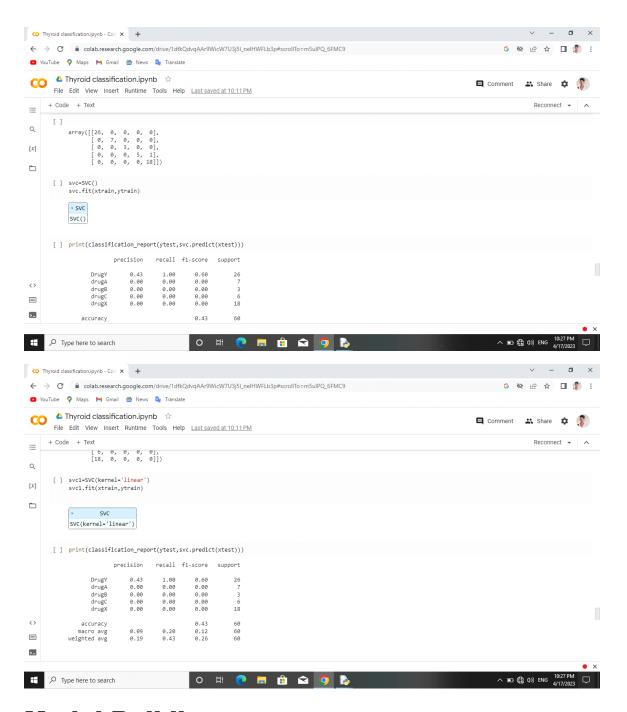




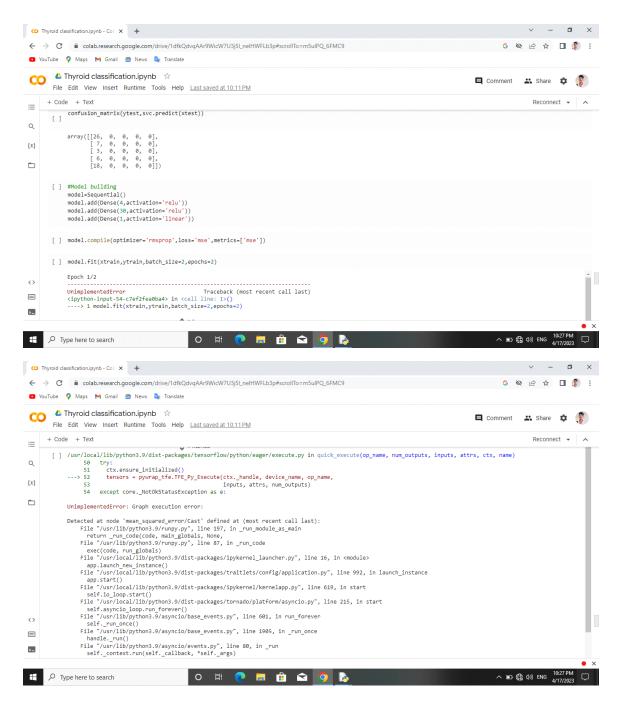




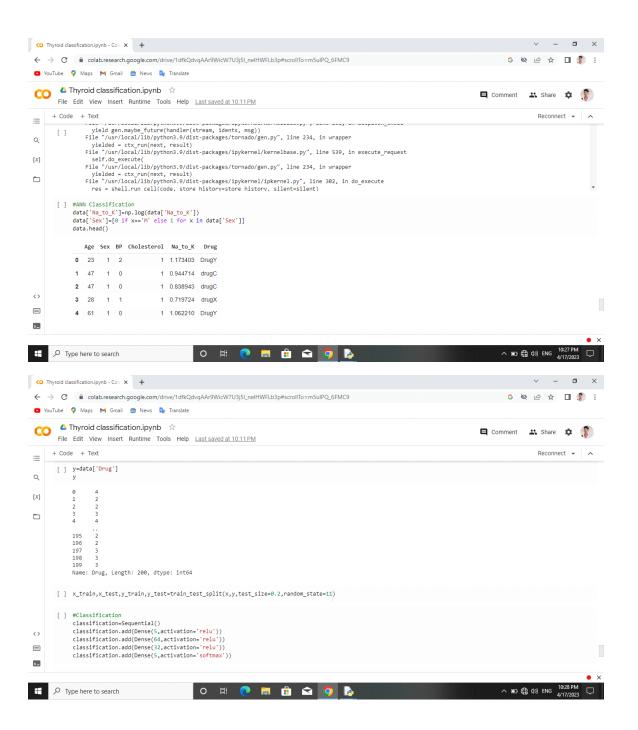
SVC method;

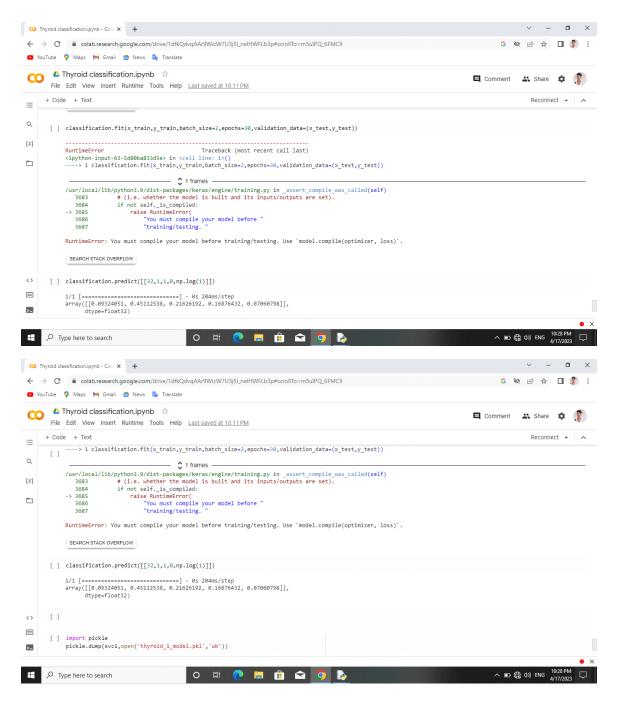


Model Building:

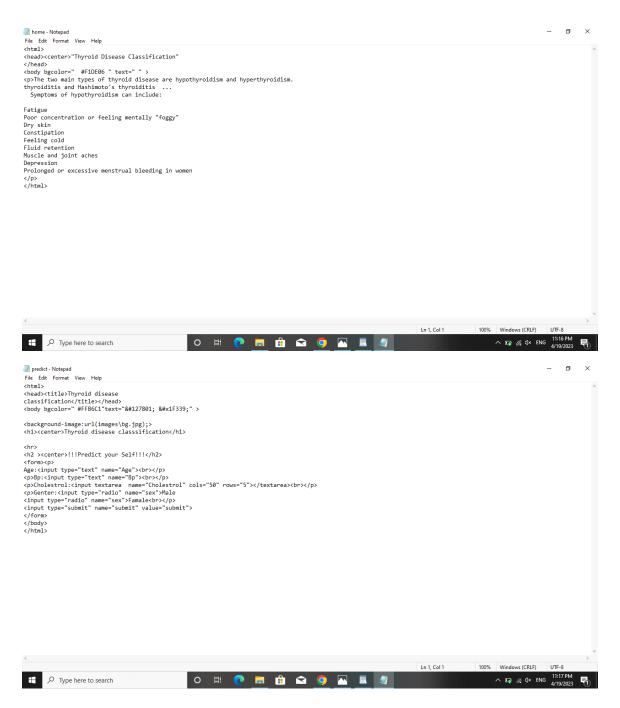


KNN.classification:

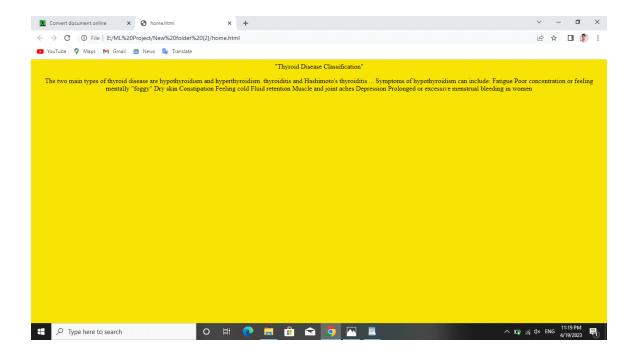


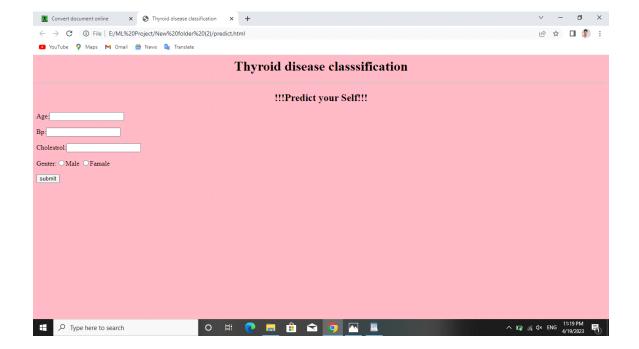


Html page:



Output:





THANK YOU !!!