1. INTRODUCTION

1.1 Overview:

Thyroid neoplasms were classified as two molecular groups (BRAF-1600F - like and RAS-Like) or three groups (BRAF-1600F - like RAS-Like, rand non BRAF 1600F - / non-RAS-Like) based on the mutational and gene expression profiles [7,8]. The BRAF 1600E group is most commonly represented by papillary thyroid careinoma (PTC).

1.2 Purpose

The functional behaviour of the thyroid is fundamental in most thyroid diseases rand nepresents the basis for diagnosis and thorage Enthyroidism, hyperthyroidism, and hypothyroid ism, clinical states neflecting normal, excessive, or defective levels of thyroid hormones, were the basis if classification (1,2).

2. LITERATURE SURVEY

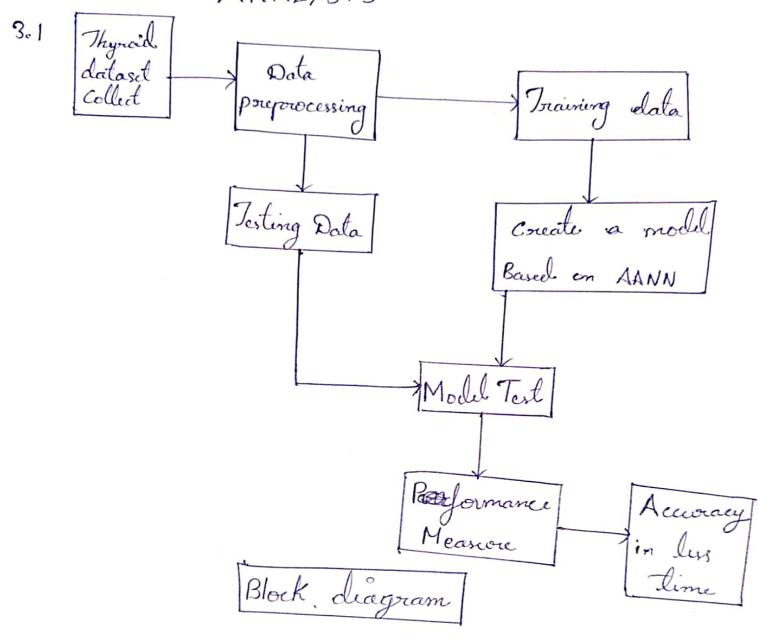
2.1 Existing problems

Thyroidities: This condition is an infla--monation (Swelling) of the thyroid gland. Thyroidities can lower the ramount of hormones your thyroid produces. Hashimoto's thyroidities: A painfull disease, Hashumoto's thyoroidilis is an autommune condition where the body's sells waltack and clamage the thyroid.

2.2 Proposed solution for thyroid

if the patient have low levels of thyroid harmones (hypothyrordism), the main treatment option is : Thyroid replacement medication. This ebug is a synthetic (man-made) way to sadd thyroid hormones back into your body. One doing that's commonly used is called "levothyouxine".

3. THERITICAL ANALYSIS



3.2 Hardware / softwere designing

to access the idata in the data sent phycharm is compulerary to use the Anaconda prompt and pychame to exact the codes to give an output. we was used Visual Encodor for this

4. EXPERIMENTAL INVESTIGATION

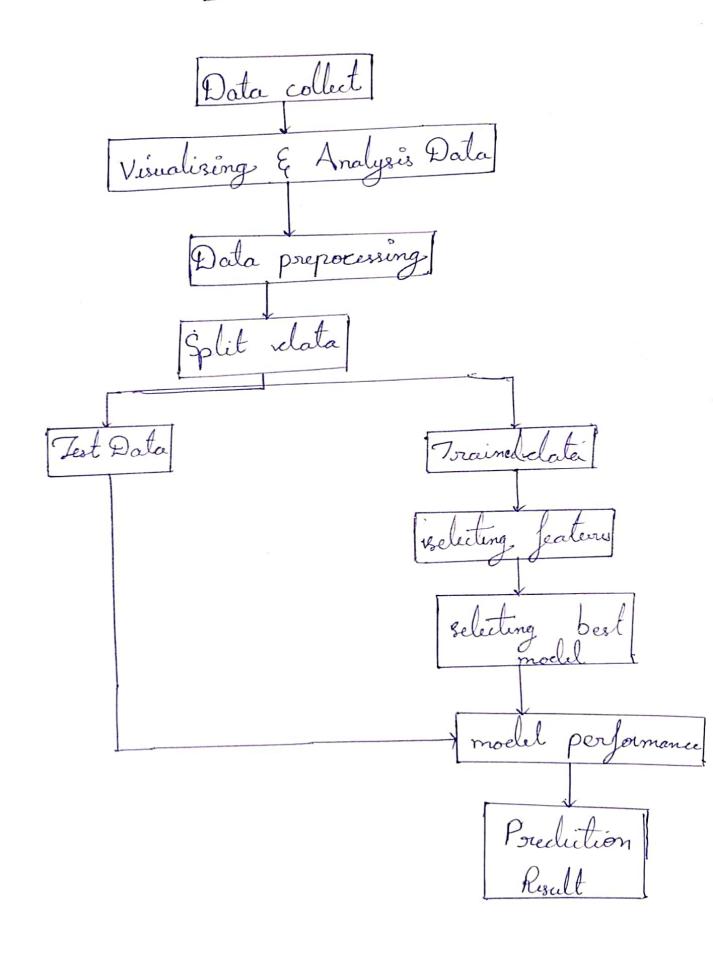
Thyroid "Hood Lests" check for hormones and proleins like antibodies and thyroglobuling These lest can tell you if you have conditions like hypothyroidens. It cheek the levels of Cholesterol (TSH)" and your level of a thyroid hormone called thyronine. This tests will help your doctor find out if your thyroid is overactive of underactive. The above blood test can help to find the level of "Na-to-k" there were inof to find the level of your thyroid is concretion or underaction. The More main blood tests

(1) T4 lest : This is done to measure the blood level.

(ii) TSH test : This is clone to find how well the thyroid is working.

(iii) To total Lest: The is done to measure. The other major thyriad hormone in the blood.

5. FLOW CHART



6. RESULT

Thyroid Prediction :

if we sun the codes app. py in
vanaconda we will find the chrome link the
own project and in that link we can predict
the Blood pressure, cholestrol and Na-to-k Retion
vanel gives an output was a result of our
project shown in the below picture.

← → ○ ○ 127.00 15000/predict Thyroid Prediction Prediction Result: Drug C has to be taken

7. ADVANTAGIES AND DISADVANTAGIES

* ADVANTAGES

-> No surgical risk, Scar vor changes of Jujury lo parathyroid or nearest daryngal nerve.

-> If toreatment with Antithyroid shows side Effects like hypothyroidism then stoppage of thyroid treatment oceverse the action.

-> The Antithyroid edrugs used for children as well as young, welults.

* DISADVANTAGES

-> Prolonged breatments is needed because stopped of treatment shows recurrence I ordapse rate is high

> Not practicable in unecoperative hunintelliget

-> High relong losicity & side effects

-> During pregnency thyroclectomy and 181 were Contraindéeded because it develops rist of Joèlal hypothyroidism and goiter.

8. APPLICATIONS

- * US based sisk isbratification System (RSS)
 have been used for the effective management of
 thyroid rodules since the early 2000.
- * Cortain medications (cholestyramine, colestipo),
 Colesevelam, antacids, Sucralfate, simethicane, iron,
 Soclium polystyrene sulfonale, calcium.
- * A orteficial intelligence plays a coucial scale in the CAD space. It is used to generate cleriges, improve the quality and speed of simulations safety, and replimes emanufacturing processes.
- * They were many commercialised programes were swailable to provide vaccess to the system.
- * Thyroid hormone is used to treat underaction thyroid (hypothyroides).
- Thyroid is an important endocione gland that makes and release certain hormones. Your Chyroid's main job is to control the metabolism.

9. CONCLUSION

At last of the project has been van outstanding experience to reveal.

On this thyroid classification project of have bearn many new things from the project.

The Above project were clone by Mechine learning and Dortificial Intelegence It have become integral to wow lines, and Their relevance in the near fection is underiable. I have learn many new thing on Thyroid decease. And also on AILMI programmes and eades to escate HtML coules etc overall it has a great experience. This has to be a great opportunity for me rand my team. I have enjoyee every

stage on making this project.

10. FUTURE ScopE

* The Chyroid gland plays an important role in metabolism of hy human body.

* It the thyroid desease encreases then It can eventually dead to "come or over death".

Our scope is to suchece this type of thyroid desease.

To oursel the importance of the thyroid

to the public. It occloasing and controlling
thyroid hormones that control metabolism.

To oregulating the orate at which your
body uses calories (energy)

* To scelve the complications due to the neglegence con thyroid problem.

* To step the thyroid problem before it converts to the cancer.

11. BIBILOGIRAPHY.

On this thyroid classification project

we used the resources from the google and

APSCHE LINKS.

List of Cinks

GilHub repository of the trainer.

: https://github.com//HaniPnabhu 741/ APSCHESep-AI-ML

https://github.com//Sowmyamohandas/ APSCHE -sep-AIML

Data seti

? https://www.kaggle.com/datasets//mexicell. /Us. schools stores.

https://www.Kaggle.com/datasets/prathantri pathi/drug-classification.

Record link

: https://apsche-vip.teachable.com/purchase ? product_id-5015540

House price porediction : https://www.Kaggle.com/datasets/shree1992/

housedata