

Project Title	Thyroid Disease Detection
Technologies	Machine Learning classification
Domain	Healthcare

Problem Statement:

Thyroid disease is a common cause of medical diagnosis and prediction, with an onset that is difficult to forecast in medical research. The thyroid gland is one of our body's most vital organs. Thyroid hormone releases are responsible for metabolic regulation. Hyperthyroidism and hypothyroidism are one of the two common diseases of the thyroid that releases thyroid hormones in regulating the rate of body's metabolism.

The main goal is to predict the estimated risk on a patient's chance of obtaining thyroid disease or not.

Approach: The classical machine learning tasks like Data Exploration, Data Cleaning, Feature Engineering, Model Building and Model Testing. Try out different machine learning algorithms that's best fit for the above case.

Dataset:

Dataset Link: - [Link](#)

Project Evaluation metrics:

Code:

- Write a code in a modular fashion
- Testable: It can be tested at the code level.
- Maintainable: It can be maintained, even as your codebase grows.
- Portable: It works the same in every environment (operating system)
- Follow the coding standards: <https://www.python.org/dev/peps/pep-0008/>

Cloud:

- Use a cloud platform for entire solution to host like AWS, Azure or GCP

API Details or User Interface:

- create a user interface for your model testing and API components

Logging:

- Logging is a must for every action performed by code use the python logging library for this.

