Detect Thyroid Cancer Reoccurrence using patient data.

# Objective

Build a system that can predict if a Thyroid Cancer survivor can relapse(his or her cancer reoccurs)

# Dataset

This dataset contains data about thyroid checkups for people with a diagnosis and is a comprehensive collection of patient information, specifically focused on individuals diagnosed with cancer.

Description of columns:

* Age: The age at the time of diagnosis or treatment.
* Gender: The gender of the patient (male or female).
* Smoking: Whether the patient is a smoker or not.
* Hx Smoking: Smoking history of the patient (e.g., whether they have ever smoked).
* Hx Radiotherapy: History of radiotherapy treatment for any condition.
* Thyroid Function: The status of thyroid function, possibly indicating if there are any abnormalities.
* Physical Examination: Findings from a physical examination of the patient.
* Adenopathy: Presence or absence of enlarged lymph nodes (adenopathy) in the neck region.
* Pathology: Specific type of thyroid cancer determined by the pathological examination of biopsy samples.
* Focality: Whether the cancer is unifocal (limited to one location) or multifocal (present in multiple locations).
* Risk: The risk category of the cancer based on various factors, such as tumor size, extent of spread, and histological type.
* T: Tumor classification based on its size and extent of invasion into nearby structures.
* N: Nodal classification indicating the involvement of lymph nodes.
* M: Metastasis classification indicating the presence or absence of distant metastases.
* Stage: The overall stage of the cancer, typically determined by combining T, N, and M classifications.
* Response: Response to treatment, indicating whether the cancer responded positively, negatively, or remained stable after treatment.
* Recurred: Has the cancer recurred after initial treatment.