

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.