Detect Lung Cancer using patient diagnosis data.

# Objective

Build a system that can predict the survival of a patient given details of the patient. Explore the data to understand the features and figure out an approach.

# Dataset

This dataset contains data about lung cancer Mortality and is a comprehensive collection of patient information, specifically focused on individuals diagnosed with cancer.

Description of columns:

* *id*: A unique identifier for each patient in the dataset.
* *age*: The age of the patient at the time of diagnosis.
* *gender*: The gender of the patient (e.g., male, female).
* *country*: The country or region where the patient resides.
* *diagnosis\_date*: The date on which the patient was diagnosed with lung cancer.
* *cancer\_stage*: The stage of lung cancer at the time of diagnosis (e.g., Stage I, Stage II, Stage III, Stage IV).
* *family\_history*: Indicates whether there is a family history of cancer (e.g., yes, no).
* smoking\_status: The smoking status of the patient (e.g., current smoker, former smoker, never smoked, passive smoker).
* *bmi*: The Body Mass Index of the patient at the time of diagnosis.
* *cholesterol\_level*: The cholesterol level of the patient (value).
* *hypertension*: Indicates whether the patient has hypertension (high blood pressure) (e.g., yes, no).
* *asthma*: Indicates whether the patient has asthma (e.g., yes, no).
* *cirrhosis*: Indicates whether the patient has cirrhosis of the liver (e.g., yes, no).
* *other\_cancer*: Indicates whether the patient has had any other type of cancer in addition to the primary diagnosis (e.g., yes, no).
* *treatment\_type*: The type of treatment the patient received (e.g., surgery, chemotherapy, radiation, combined).
* *end\_treatment\_date*: The date on which the patient completed their cancer treatment or died. survived: Indicates whether the patient survived (e.g., yes, no).