app · Streamlit

localhost:8501

User Input Features

GENDER: Enter 1 for Male and 0 for Female

0

AGE: Enter your Age

20

SMOKING: Enter 1 if you smoke or 0 if you don't smoke

0

YELLOW FINGERS: Enter 1 if you have yellow fingers or 0 if you don't

0

ANXIETY: Enter 1 if you have anxiety and 0 if you don't

0

PEER PRESSURE: Enter 1 if you feel you suffer from peer pressure or 0 if you don't

Lung Cancer Prediction Web App

Problem Statement

Lung cancer is a type of cancer that begins in the lungs and most often occurs in people who smoke. Two major types of lung cancer are non-small cell lung cancer and small cell lung cancer. Causes of lung cancer include smoking, second-hand smoke, exposure to certain toxins and family history. Symptoms include a cough (often with blood), chest pain, wheezing and weight loss. These symptoms often don't appear until

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0

WHEEZING: Enter 1 if you wheeze or 0 if you don't

0

ALCOHOL CONSUMPTION: Enter 1 if you consume alcohol or 0 if you don't

0

COUGHING: Enter 1 if you cough a lot or 0 if you don't

0

SHORTNESS OF BREATH: Enter 1 if you suffer from shortness of breath or 0 if you don't

0

SWALLOWING DIFFICULTY: Enter 1 if you have difficulty swallowing or 0 if you don't

0

CHEST PAIN: Enter 1 if you have chest pain or 0 if you don't

0

Problem Statement

Lung cancer is a type of cancer that begins in the lungs and most often occurs in people who smoke. Two major types of lung cancer are non-small cell lung cancer and small cell lung cancer. Causes of lung cancer include smoking, second-hand smoke, exposure to certain toxins and family history. Symptoms include a cough (often with blood), chest pain, wheezing and weight loss. These symptoms often don't appear until the cancer is advanced. Treatments vary but may include surgery, chemotherapy, radiation therapy, targeted drug therapy and immunotherapy.

In this project I built a machine learning model that can help in detecting/predicting lung cancer based on the following features: age, gender, blood pressure, smoke, coughing, allergies, fatigue etc. The model was then deployed as an API using the FastAPI framework and then accessed through this interface with Streamlit.

Made by Koushika Abinaya

Predictions

After evaluating 6 different classification algorithms the GradientBoostingClassifier had the best accuracy of 94% and that's the algorithm used to make predictions.

Get Prediction

This Person does not have long cancer

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