Health Diagnosis Application (HDA)

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Developed By:-

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Process

- The user needs to Register to the portal.

- Fill up your details.

- Fill up the symptom form.

- Upload the X-ray copy.

- Submit the data.

Benefits

- Quick and Prompt.

- Reduced exposure to pathogens.

- Fast and Easy diagnosis process.

- Easy for people living in rural areas or outskirts.

- Privacy & Security.

- Convenient and affordable cost.

- Easy to access the application.

End-Users

- Hospitals

- Doctors

- Physician

- Pathlabs

- Patient

Lung Cancer Detection

➔ **Lung Adenocarcinoma** - is the most common primary lung cancer seen in the United States. It falls under the umbrella of non-small cell lung cancer (NSCLC) and has a strong association with previous smoking. While incidence and mortality have declined, it remains the leading cause of cancer death in the United States

➔ **Squamous Cell Carcinoma (SCC)** of the lung, also known as squamous cell lung cancer, is a type of non-small cell lung cancer (NSCLC). Squamous cell lung tumours often occur in the central part of the lung or the main airway, such as the left or right bronchus.

➔ **Input:**
Histopathological Images

➔ **Process:**
Step 1: Image dataset load
Step 2: Image rescaling & analysis
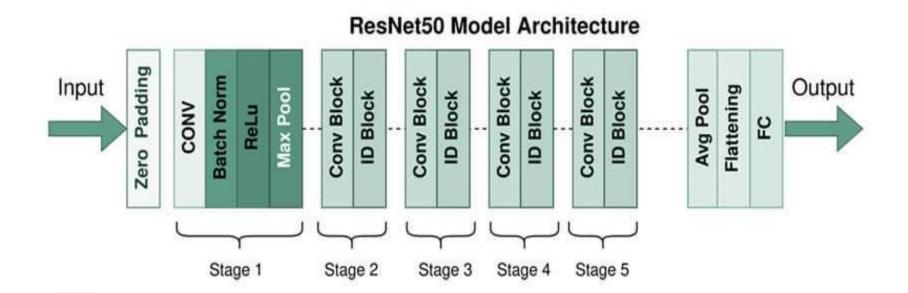**Step 3:** Model building using ResNet50 model
Step 4: Accuracy & Loss
Step 5: Single image check for Lung Cancer Detection

➔ **Output:**
Single Image Prediction with probability score

ResNet50 Model Architecture
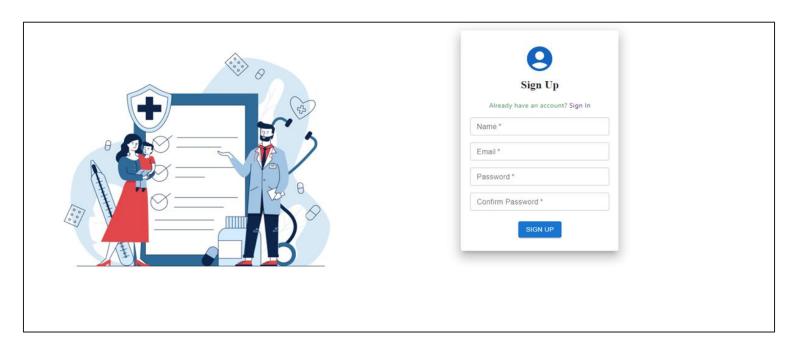

ResNet50 Model Architecture

Business Proposal

Health Diagnosis application can help people receive care on their own terms, whether from home, the office, or abroad. The legal framework for remote medical services is becoming more favorable for healthcare providers, which will help resolve the biggest challenges of online diagnosis. Now is the perfect time for medical facilities to adopt telehealth technology and build a convenient diagnosis system that complies with industry standards and laws.
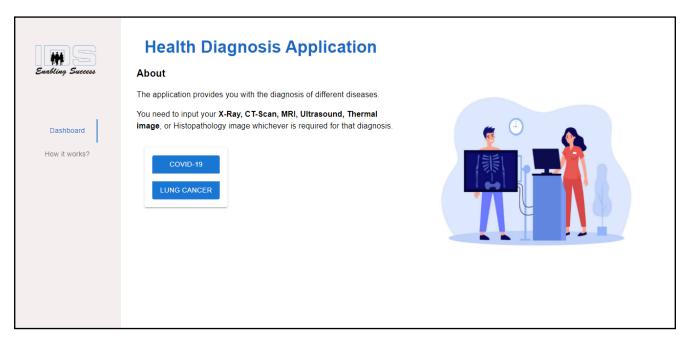
1. Sign-Up

2. Dashboard

Lung Cancer Detection Application

LUNG CANCER SYMPTOMS FORM

Thank you for using our application for lung cancer Diagnosis. This form is designed to help identify potential symptoms of lung cancer.

Please answer the following questions to the best of your ability and Upload the Histopathology Image.

Full Name

Age *

Gender

○ Female   ○ Male   ○ Other

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1. **Do you have any of these symptoms?**

   Bone pain   ○ Yes   ○ No

   Nervous system change ○ Yes   ○ No

   Jaundice   ○ Yes   ○ No
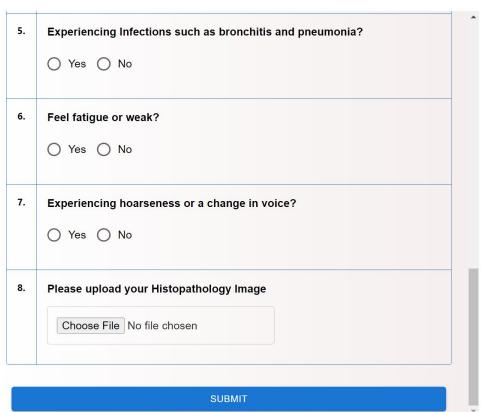
Lung Cancer Detection Application

Swelling in armpits, neck & collar bone.　　○ Yes　○ No

2.　**Experiencing Coughing up blood?**

○ Yes　○ No

3.　**Experiencing a persistent cough or chest pain?**

○ Yes　○ No

4.　**Experiencing shortness of breath?**

○ Yes　○ No

5.　**Experiencing Infections such as bronchitis and pneumonia?**

○ Yes　○ No

Lung Cancer Detection Application

5. **Experiencing Infections such as bronchitis and pneumonia?**

○ Yes ○ No

6. **Feel fatigue or weak?**

○ Yes ○ No

7. **Experiencing hoarseness or a change in voice?**

○ Yes ○ No

8. **Please upload your Histopathology Image**
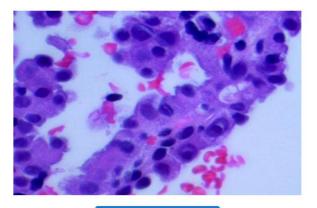
Choose File | No file chosen

SUBMIT

Lung Cancer Detection Application

Hi Test-43

These are the symptoms you reported in previously filled Form Data.

S.No	Questions	Answer
1	Experiencing a Bone Pain?	Yes
2	Experiencing a Nervous system change?	Yes
3	Experiencing a Jaundice?	Yes
4	Experiencing a Swelling of Lymph?	No
5	Experiencing a Coughing up blood?	Yes
6	Experiencing a persistent cough or chest pain?	No
7	Shortness of Breath	Yes
8	Experiencing Infections such as bronchitis and pneumonia?	Yes
9	Feel Fatigue or weak	Yes
10	Hoarseness or a change in voice	Yes

IDS
Enabling Success

CHECK

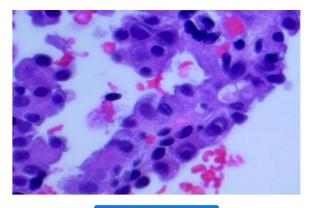PREDICTION RESULT:
PROBABLITY SCORE:
RESULT BASED ON SYMPTOM:

Lung Cancer Detection Application

Hi Test-43

These are the symptoms you reported in previously filled Form Data.

S.No	Questions	Answer
1	Experiencing a Bone Pain?	Yes
2	Experiencing a Nervous system change?	Yes
3	Experiencing a Jaundice?	Yes
4	Experiencing a Swelling of Lymph?	No
5	Experiencing a Coughing up blood?	Yes
6	Experiencing a persistent cough or chest pain?	No
7	Shortness of Breath	Yes
8	Experiencing Infections such as bronchitis and pneumonia?	Yes
9	Feel Fatigue or weak	Yes
10	Hoarseness or a change in voice	Yes

CHECK

Adenocarcinoma
100%
You Have Strong Symptoms Of Lung Cancer

Download your Report from here

LUNG CANCER DIAGNOSIS REPORT

HDA

Name:	Test-30
Gender:	Male
Age:	23

Diagnosis Result	*You Are Diagnosed With Lungs Cancer*

Lung Cancer Type	Adenocarcinoma

Probablity Score	100%

User Symptom Result	You Have Strong Symptoms Of Lung Cancer

PRECAUTION BASED ON LUNG SYMPTOM FORM	
Bone Pain	May Be Your Lung Cancer Spread In Bone Also. Please Consult Doctor For Verification
Jaundice	May Be Your Lung Cancer Effect In Liver Function. Please Consult Doctor For Verification
Nervous System Change	May Be Your Lung Cancer Spread In Brain Also. Please Consult Doctor For Verification
Swelling Of Lymph	No

Disclaimer*

1. The report on lung cancer produced by this application is solely meant for informational purposes and should not be used as a substitute for professional medical recommendations, diagnosis, or care.

2. The report is built using AI algorithms and the data that the user has submitted.

3. The correctness of the report depends on how accurate and comprehensive the user's information is provided.

4. The program and its developers disclaim all liability for any negative effects or damage resulting from the usage of the report.

Thank You