# A PROJECT REPORT ON

**COLORECTAL CANCER DETECTION BY USING DEEP LEARNING**

Submitted in partial fulfillment of the requirements for the award of the degree

of

**BACHELOR OF TECHNOLOGY**

In

**COMPUTER SCIENCE AND ENGINEERING**

Under the guidance of

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Associate Professor/Computer Science And Engineering



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## SREENIVASAINSTITUTE OF TECHNOLOGYAND MANAGEMENT

### STUDIES (Autonomous)

**(Approved by AICTE, New Delhi & Affiliated to JNTUA, Ananthapuramu) Chittoor, A.P-517127.**

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

**(2023 - 24)**

## SREENIVASAINSTITUTE OF TECHNOLOGYAND

**MANAGEMENT STUDIES, (Autonomous-NBA Accredited) by AICTE, New Delhi & Affiliated to JNTUA, Ananthapuramu) Chittoor,A.P-517127.**

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

**CERTIFICATE**

This is to certify that the project work entitled **“COLORECTAL CANCER DETECTION BY**

**USING DEEP LEARNING”** is a genuine work of

|  |  |
| --- | --- |
| **A R THEJA** | **20751A0505** |
| **B G DEEPA** | **20751A0528** |
| **BSIVALAKSHMI** | **20751A0524** |
| **A SRUTHI** | **20751A0506** |

Submitted to the department of Computer Science and Engineering, in partial fulfillment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in COMPUTER SCIENCE AND ENGINEERING from Jawaharlal Nehru Technological University Ananthapur, Ananthapuramu.

|  |  |
| --- | --- |
| Signature of the Supervisor  **Mr E.PURUSHOTHAM**  Associate Professor,  Department of Computer And Science  Engineering,  Sreenivasa Institute of Technology and Management Studies, Chittoor, A.P. | Signature of the head of the Department  **Mr. M.E. PALANIVEL**  Professor & HOD,  Department of Computer Science And  Engineering,  Sreenivasa Institute of Technology and Management Studies, Chittoor ,A.P. |

Submitted for University Examination (Viva-Voce) held on …………………………..

**INTERNALEXAMINER EXTERNAL EXAMINER**

## SREENIVASAINSTITUTE OF TECHNOLOGYAND

**MANAGEMENT STUDIES, (Autonomous-NBA Accredited)**

**(Approved by AICTE, New Delhi & Affiliated to JNTUA, Ananthapuramu) Chittoor,A.P-517127.**

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

# Institute Vision

To emerge as a Centre of Excellence for Learning and Research in the domains of engineering,

computing and management.

# Institute Mission

M1: Provide congenial academic ambience with state-art of resources for learning and research.M2:

Ignite the students to acquire self-reliance in the latest technologies.

M3: Unleash and encourage the innate potential and creativity of students.

M4: Inculcate confidence to face and experience new challenges.

M5: Foster enterprising spirit among students.

# Department Vision

To contribute for the society through excellence in Computer Science and Engineering with a deep passion for wisdom, culture and values.

# Department Mission

* Provide congenial academic ambience with necessary infrastructure and learning resources.
* Inculcate confidence to face and experience new challenges from industry and society.
* Ignite the students to acquire self-reliance in the latest technologies.
* Foster Enterprising spirit among students.

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

**PROGRAMMEEDUCATIONAL OBJECTIVES (PEO’s):**

**PEO1:** Excel in Computer Science and Engineering program through quality studies, enabling success in computing industry.**(Professional Competency)**.

**PEO2:** Surpass in one’s career by critical thinking towards successful services and growth of the organization, or as an entrepreneur or in higher studies. **(Successful Career Goals)**.

**PEO3:** Enhance knowledge by updating advanced technological concepts for facing the rapidly changing world and contribute to society through innovation and creativity **(Continuing Education and Contribution to Society)**.

**PROGRAM SPECIFIC OUTCOMES (PSO’s):**

**PSO1:** Have Ability to understand, analyses and develop computer programs in the areas like algorithms, system software, web design,big data analytics, and networking.

**PSO2:** Deploy the modern computer languages, environment, and platforms in creating innovative products and solutions.

**PROGRAMMEOUTCOMES (PO’s):**

**PO1 - Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

**PO2 - Problem analysis:** Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

**PO3 - Design/development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

**PO4 - Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

**PO5 - Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

**PO6 - The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

**PO7 - Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

**PO8 - Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

**PO9 - Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

**PO10 - Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

**PO11 - Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one’s own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

**PO12 - Life-long learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING Course Out Comes for Project Work

On completion of project work the student will be able to **CO1.** Demonstrate in-depth knowledge on the project topic.

**CO2.** Identify, analyze and formulate complex problem chosen for project work to attain substantiated conclusions.

**CO3.** Design solutions to the chosen project problem.

**CO4.** Undertake investigation of project problem to provide valid conclusions.

**CO5.** Use the appropriate techniques, resources and modern engineering tools necessary for project work.

**CO6.** Apply project results for sustainable development of the society.

**CO7.** Understand the impact of project results in the context of environmental sustainability.

**CO8.** Understand professional and ethical responsibilities while executing the project work.

**CO9.** Function effectively as individual and a member in the project team.

**CO10.** Develop communication skills, both oral and written for preparing and presenting project report.

**CO11.** Demonstrate knowledge and understanding of cost and time analysis required for carrying out the project.

**CO12.** Engage in lifelong learning to improve knowledge and competence in the chosen area of the project.

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     1. Technical Feasibility
     2. Operational Feasibility
     3. Economic Feasibility

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### ABSTRACT

Colorectal cancer is a significant global health concern, accounting for a substantial portion of cancer-related deaths worldwide. Early detection and timely intervention are pivotal in improving patient outcomes. This paper presents an innovative approach for the early detection of colorectal cancer through the application of deep learning techniques.

We leverage a large dataset of medical images, including colonoscopy and histopathology slides, to develop a robust and accurate deep learning model for colorectal cancer detection. Convolutional Neural Networks (CNNs) and MobileNet architectures are employed to automatically extract meaningful features from these images, enabling the discrimination between cancerous and non-cancerous tissues.

**Keywords**: colorectal dataset, deep learning algorithms etc...

Colorectal cancer often referred to as bowel or colon cancer is a prevalent and life-threatening disease that affects the colon or rectum, both crucial components of the digestive system. It ranks among the most common cancers globally and is a leading cause of cancer-related mortality. The early detection and accurate diagnosis of colorectal cancer are pivotal in improving patient outcomes and reducing mortality rates. Traditionally, the diagnosis of colorectal cancer has relied heavily on invasive procedures such as colonoscopy and biopsy. While these methods remain highly effective, they come with inherent discomfort, cost, and potential risks for patients. Moreover, they often require skilled medical professionals to interpret the results, leading to variability in diagnoses.

In recent years, the field of medical imaging and artificial intelligence has seen remarkable advancements, opening new avenues for improving the early detection and diagnosis of various diseases, including colorectal cancer. Deep learning, a subset of artificial intelligence, has emerged as a powerful tool in medical image analysis. Convolutional Neural Networks (CNNs) have been particularly successful in automating the process of identifying abnormalities and diseases in medical images, offering both accuracy and efficiency. This research paper aims to explore the application of CNNs in the early detection of colorectal cancer. By harnessing the potential of deep learning techniques, we seek to develop a robust and automated system that can assist healthcare professionals in identifying suspicious lesions and abnormalities in colonoscopy and other relevant imaging modalities. This system could ultimately enhance the accuracy and speed of diagnosis, reduce the burden on medical practitioners, and potentially improve patient outcomes.

**4.3 SYSTEM ARCHITECTURE DIAGRAM**

### Views.py

|  |
| --- |
| from django.shortcuts import render,redirect from django.contrib.auth.models import User from tensorflow.keras.models import \* from tensorflow.keras.layers import \* from django.contrib.auth import authenticate,login,logout from .models import \* from tensorflow.keras.preprocessing import image import os import pandas as pd import numpy as np  # Create your views here.  index="index.html" About="about.html" registerpage="register.html" loginpage="login.html" Userhome = 'userhome.html' uploadpage = 'upload.html' resultpage = "result.html" |
| def index(request):  return render(request,"index.html") |
| def about(request):  return render(request,"about.html") |
| def register(request): if request.method == 'POST': name = request.POST['name'] email = request.POST['email'] password = request.POST['password'] conpassword = request.POST['conpassword'] age = request.POST['Age'] contact = request.POST['contact'] if password == conpassword:  register = Register(name=name, email=email, password=password, age=age,contact=contact)  register.save() print(register) |
| msg = f"You've signed up successfully {name}" return render(request, loginpage) # else:  # msg = "Registration failed. Please try again." return render(request, registerpage, {"msg": msg})  return render(request,'register.html') |
| def login(request):  if request.method == 'POST': |

lemail = request.POST['email'] lpassword = request.POST['password']

|  |
| --- |
| d = Register.objects.filter(email=lemail, password=lpassword).exists() print(d) if d:  return redirect(userhome) |
| else:  msg = 'Login failed' return render(request, login, {'msg': msg})  return render(request,'login.html') |
| def userhome(request):  return render(request, Userhome) |
| def upload(request):  pathss = os.listdir(r"C:\Users\0618\Documents\projects\SEPTEMBER\business\TK120714 - CANCER\_DEEP LEARNING\SOURCE  CODE-YMTS-0618\CODE\DATA") classes = [] for i in pathss:  classes.append(i)  if request.method == "POST": file = request.FILES['file'] s = Ccrack(image=file) s.save() path1 = os.path.join('home/static/save/' + s.filename())  model = load\_model(r'C:\Users\0618\Documents\projects\SEPTEMBER\business\TK120714 - CANCER\_DEEP LEARNING\SOURCE  CODE-YMTS-0618\CODE\webapp\home\model\CNN.h5') x1 = image.load\_img(path1, target\_size=(224, 224)) x1 = image.img\_to\_array(x1) x1 = np.expand\_dims(x1, axis=0) x1 /= 255  result = model.predict(x1) b1 = np.argmax(result) prediction = classes[b1] |

return render(request, 'result.html', {"result": prediction, "path1": 'static/save/' + s.filename()})

return render(request, 'upload.html')

Admin.py

from django.contrib import admin

# Register your models here.

Apps.py

from django.apps import AppConfig

|  |
| --- |
| class HomeConfig(AppConfig):  default\_auto\_field = 'django.db.models.BigAutoField' name = 'home' |

Manage.py

|  |
| --- |
| #!/usr/bin/env python  """Django's command-line utility for administrative tasks.""" import os import sys  def main():  """Run administrative tasks.""" os.environ.setdefault('DJANGO\_SETTINGS\_MODULE', 'webapp.settings') try:  from django.core.management import execute\_from\_command\_line  except ImportError as exc:  raise ImportError(  "Couldn't import Django. Are you sure it's installed and "  "available on your PYTHONPATH environment variable? Did you "  "forget to activate a virtual environment?"  ) from exc  execute\_from\_command\_line(sys.argv) |
| if \_\_name\_\_ == '\_\_main\_\_':  main() |

Tests.py

from django.test import TestCase # Create your tests here.

Models.py

|  |
| --- |
| from django.db import models import os  # Create your models here. class Register(models.Model):  name=models.CharField(max\_length=50) email=models.EmailField(max\_length=50) password=models.CharField(max\_length=50) age=models.CharField(max\_length=50) contact=models.CharField(max\_length=50) |
| class Ccrack(models.Model):  image = models.ImageField(upload\_to="home/static/save") |
| def filename(self):  return os.path.basename(self.image.name) |

Urls.py

from django.urls import path

from . import views

urlpatterns = [

path('', views.index, name='home'), path('about', views.about, name='about'), path('register', views.register, name='register'), path('login', views.login, name='login'), path('userhome', views.userhome, name='userhome'), path('upload', views.upload, name='upload'),

CNN

## IMPORTING LIBRARIES

|  |
| --- |
| import pandas as pd import numpy as np import os from keras.preprocessing.image import ImageDataGenerator import tensorflow as tf from keras.models import Model, Sequential, load\_model  from keras.layers import Dense, Dropout, Flatten, Conv2D, MaxPool2D, BatchNormalization, GlobalAveragePooling2D,Activation,Input from tensorflow.keras.optimizers import Adam import matplotlib.pyplot as plt  ! pip install seaborn import seaborn as sns import cv2 |

DATA LOADING

|  |
| --- |
| data\_dir=r"DATA" cancer=[] for file in os.listdir(data\_dir):  cancer+=[file]  print(cancer) print(len(cancer)) |

## PREPROCESSING

|  |
| --- |
| # Define your image dimensions and batch size img\_height = 224 img\_width = 224 batch\_size = 32  # Create separate data generators for training and testing train\_datagen = ImageDataGenerator( rescale=1./224, validation\_split=0.2  ) |

# Training data generator train\_generator = train\_datagen.flow\_from\_directory(

data\_dir, target\_size=(img\_height, img\_width), batch\_size=batch\_size,

|  |
| --- |
| class\_mode='categorical', subset='training'  ) |

# Testing data generator test\_generator = train\_datagen.flow\_from\_directory( data\_dir, target\_size=(img\_height, img\_width), batch\_size=batch\_size, class\_mode='categorical', subset='validation'

)

## APPLYING CNN ALGORITHM

|  |
| --- |
| # Create a Sequential model, which is a linear stack of layers model = Sequential()  # Add a 2D convolutional layer with 32 filters, a 3x3 kernel, 'Same' padding, ReLU activation,  # and input shape (img\_height, img\_width, 3) for RGB images model.add(Conv2D(filters=32, kernel\_size=(3,3), padding='same', activation='relu', input\_shape=(img\_height,img\_width, 3))) |

# Add a MaxPooling layer with a 2x2 pool size model.add(MaxPool2D(pool\_size=(2,2)))

# Add another 2D convolutional layer with 64 filters and similar settings model.add(Conv2D(filters=64, kernel\_size=(3,3), padding='same', activation='relu')) model.add(MaxPool2D(pool\_size=(2,2), strides=(2,2))) model.add(Conv2D(filters=96, kernel\_size=(3,3), padding='same', activation='relu')) model.add(MaxPool2D(pool\_size=(2,2), strides=(2,2))) model.add(Conv2D(filters=96, kernel\_size=(3,3), padding='same', activation='relu')) model.add(MaxPool2D(pool\_size=(2,2), strides=(2,2))) model.add(Flatten())

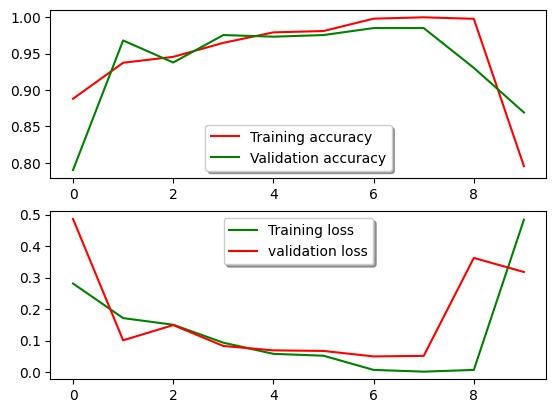
# Add a fully connected (dense) layer with 512 units and ReLU activation model.add(Dense(512)) model.add(Activation('relu'))

# Add the final output layer with 5 units (assuming you have 5 classes) and softmax activation model.add(Dense(2, activation="softmax"))

# Print a summary of the model architecture model.summary()

model.compile(optimizer='Adam',loss="categorical\_crossentropy",metrics=["accuracy"]) hist=model.fit(train\_generator,epochs=10,validation\_data=test\_generator,verbose=1)

GRAPH



|  |
| --- |
| fig, ax = plt.subplots(2,1) ax[0].plot(hist.history['accuracy'], color='r', label="Training accuracy") ax[0].plot(hist.history['val\_accuracy'], color='g',label="Validation accuracy") legend = ax[0].legend(loc='best', shadow=True)  ax[1].plot(hist.history['loss'], color='g', label="Training loss") ax[1].plot(hist.history['val\_loss'], color='r', label="validation loss",axes =ax[1]) legend = ax[1].legend(loc='best', shadow=True) model.evaluate(test\_generator) model.save("CNN.h5") |

MOBILENET

## IMPORTING LIBRARIES

|  |
| --- |
| import pandas as pd import numpy as np import os  from keras.preprocessing.image import ImageDataGenerator import tensorflow as tf from keras.models import Model, Sequential, load\_model  from keras.layers import Dense, Dropout, Flatten, Conv2D, MaxPool2D, BatchNormalization, GlobalAveragePooling2D,Activation,Input from tensorflow.keras.optimizers import Adam |
| import matplotlib.pyplot as plt  ! pip install seaborn import seaborn as sns import cv2 |

DATA LOADING

|  |
| --- |
| data\_dir=r"DATA" cancer=[] for file in os.listdir(data\_dir):  cancer+=[file]  print(cancer) print(len(cancer)) |

## PREPROCESSING

img\_height,img\_width=224,224 batch\_size=20

|  |
| --- |
| train\_datagen = ImageDataGenerator(rescale=1./255,validation\_split=0.2) train\_generator = train\_datagen.flow\_from\_directory(data\_dir,  target\_size=(img\_height,img\_width), batch\_size=batch\_size, class\_mode='categorical', subset='training')  test\_generator = train\_datagen.flow\_from\_directory(data\_dir,  target\_size=(img\_height,img\_width), batch\_size=batch\_size, class\_mode='categorical', subset='validation') |

## APPLYING MOBILENET ALGORITHM:

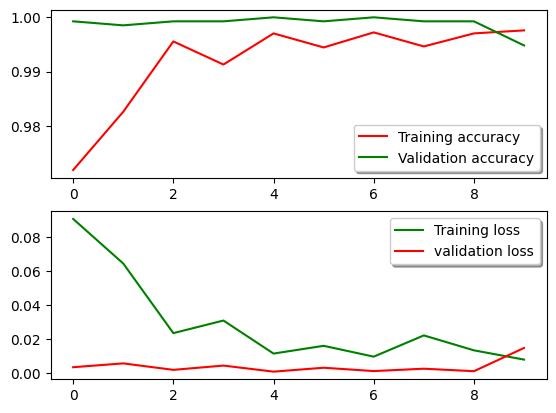
|  |
| --- |
| base\_model = tf.keras.applications.MobileNet(input\_shape=(img\_height,img\_width, 3), include\_top=False, weights='imagenet')  model1 = Sequential() model1.add(base\_model) model1.add(GlobalAveragePooling2D()) model1.add(Dense(64, activation='relu')) model1.add(BatchNormalization()) model1.add(Dropout(0.2))  model1.add(Dense(2, activation='sigmoid')) model1.summary() |

model1.compile(optimizer='Adam',loss="categorical\_crossentropy",metrics=["accuracy"]) hist2=model1.fit\_generator(train\_generator,epochs=10,validation\_data=test\_generator,verbose=1)

## GRAPH:

|  |
| --- |
| fig, ax = plt.subplots(2,1) ax[0].plot(hist2.history['accuracy'], color='r', label="Training accuracy") ax[0].plot(hist2.history['val\_accuracy'], color='g',label="Validation accuracy") legend = ax[0].legend(loc='best', shadow=True)  ax[1].plot(hist2.history['loss'], color='g', label="Training loss") ax[1].plot(hist2.history['val\_loss'], color='r', label="validation loss",axes =ax[1]) |

legend = ax[1].legend(loc='best', shadow=True)



model1.evaluate(test\_generator) model1.save("mobilenet.h5")

About.html

|  |
| --- |
| <!DOCTYPE html>  <html>  <head>  <!-- Basic -->  <meta charset="utf-8" />  <meta http-equiv="X-UA-Compatible" content="IE=edge" />  <!-- Mobile Metas -->  <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no" /> <!-- Site Metas -->  <meta name="keywords" content="" />  <meta name="description" content="" />  <meta name="author" content="" /> |

<title>Cancer</title>

<!-- slider stylesheet -->

<!-- slider stylesheet -->

<link rel="stylesheet" type="text/css" href="https://cdnjs.cloudflare.com/ajax/libs/OwlCarousel2/2.3.4/assets/owl.carousel.min.css" /> <!-- bootstrap core css -->

<link rel="stylesheet" type="text/css" href="/static/css/bootstrap.css" />

|  |
| --- |
| <!-- fonts style -->  <link href="https://fonts.googleapis.com/css?family=Open+Sans:400,700|Poppins:400,700&display=swap" rel="stylesheet">  <!-- Custom styles for this template -->  <link href="/static/css/style.css" rel="stylesheet" />  <!-- responsive style -->  <link href="/static/css/responsive.css" rel="stylesheet" /> </head> |
| <body class="sub\_page">  <div class="hero\_area">  <!-- header section strats -->  <header class="header\_section">  <div class="container-fluid">  <nav class="navbar navbar-expand-lg custom\_nav-container pt-3">  <a class="navbar-brand" href="index.html">  <span>  Cancer  </span>  </a>  <button class="navbar-toggler" type="button" data-toggle="collapse" data-target="#navbarSupportedContent" aria-controls="navbarSupportedContent" aria-expanded="false" aria-label="Toggle navigation"> <span class="navbar-toggler-icon"></span>  </button> |
| <div class="collapse navbar-collapse" id="navbarSupportedContent">  <div class="d-flex ml-auto flex-column flex-lg-row align-items-center">  <ul class="navbar-nav ">  <li class="nav-item active">  <a class="nav-link" href="index">HOME <span class="sr-only">(current)</span></a>  </li>  <li class="nav-item">  <a class="nav-link" href="about"> ABOUT </a>  </li>  <li class="nav-item">  <a class="nav-link" href="register">REGISTRATION</a>  </li>  <li class="nav-item">  <a class="nav-link" href="login"> LOGIN </a>  </li>  <li class="nav-item">  <a class="nav-link" href="userhome">USERHOME</a>  </li>  <li class="nav-item">  <a class="nav-link" href="upload">UPLOAD</a> </li>  </ul>  <div class="user\_option">  <a href="">  <img src="/static/images/user.png" alt="">  </a>  <form class="form-inline my-2 my-lg-0 ml-0 ml-lg-4 mb-3 mb-lg-0">  <button class="btn my-2 my-sm-0 nav\_search-btn" type="submit"></button>  </form>  </div> |
| </div>  </div>  </nav>  </div>  </header>  <!-- end header section -->  </div> |

<!-- who section -->

|  |
| --- |
| <section class="who\_section layout\_padding">  <div class="container">  <div class="row">  <div class="col-md-5">  <div class="img-box">  <img src="/static/images/who-img.jpg" alt=""> </div>  </div>  <div class="col-md-7">  <div class="detail-box">  <div class="heading\_container">  <h2>  COLORECTAL CANCER  </h2>  </div>  <p>  Colorectal cancer (CRC) is a significant global health concern, ranking among the leading causes of cancer-related morbidity and mortality worldwide. Early detection of CRC is crucial for effective treatment and improved patient outcomes. Conventional screening methods, such as colonoscopy and fecal occult blood tests, have limitations in terms of cost, invasiveness, and patient compliance. In recent years, deep learning algorithms have emerged as a promising tool for enhancing CRC detection and diagnosis through the analysis of medical imaging data.  </p> |

<!-- end info\_section -->

|  |
| --- |
| <!-- footer section -->  <section class="container-fluid footer\_section">  <p>  &copy; 2023 All Rights Reserved By YOUNG MINDS PRIVATE LIMITED  <!-- <a href="https://html.design/">Free Html Templates</a> -->  </p>  </section>  <!-- footer section --> |
| <script type="text/javascript" src="/static/js/jquery-3.4.1.min.js"></script>  <script type="text/javascript" src="/static/js/bootstrap.js"></script>  <script type="text/javascript" src="https://cdnjs.cloudflare.com/ajax/libs/OwlCarousel2/2.3.4/owl.carousel.min.js"> </script>  <!-- owl carousel script -->  <script type="text/javascript">  $(".owl-carousel").owlCarousel({ loop: true, |
| margin: 0, navText: [], center: true, autoplay: true, autoplayHoverPause: true, responsive: {  0: { items: 1  },  1000: { items: 3  }  }  });  </script>  <!-- end owl carousel script --> |

</body>

</html>

Index.html

|  |
| --- |
| <!DOCTYPE html>  <html>  <head>  <!-- Basic -->  <meta charset="utf-8" />  <meta http-equiv="X-UA-Compatible" content="IE=edge" />  <!-- Mobile Metas -->  <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no" /> <!-- Site Metas -->  <meta name="keywords" content="" />  <meta name="description" content="" />  <meta name="author" content="" /> |

<title>Cancer</title>

<!-- slider stylesheet -->

<!-- slider stylesheet -->

<link rel="stylesheet" type="text/css" href="https://cdnjs.cloudflare.com/ajax/libs/OwlCarousel2/2.3.4/assets/owl.carousel.min.css" />

<!-- bootstrap core css -->

<link rel="stylesheet" type="text/css" href="/static/css/bootstrap.css" />

|  |
| --- |
| <!-- fonts style -->  <link href="https://fonts.googleapis.com/css?family=Open+Sans:400,700|Poppins:400,700&display=swap" rel="stylesheet">  <!-- Custom styles for this template -->  <link href="/static/css/style.css" rel="stylesheet" />  <!-- responsive style -->  <link href="/static/css/responsive.css" rel="stylesheet" />  </head> |
| <body>  <div class="hero\_area">  <!-- header section strats --> |

|  |
| --- |
| <header class="header\_section">  <div class="container-fluid">  <nav class="navbar navbar-expand-lg custom\_nav-container pt-3">  <a class="navbar-brand" href="index.html">  <span>  Cancer  </span>  </a>  <button class="navbar-toggler" type="button" data-toggle="collapse" data-target="#navbarSupportedContent" aria-controls="navbarSupportedContent" aria-expanded="false" aria-label="Toggle navigation"> <span class="navbar-toggler-icon"></span>  </button> |
| <div class="collapse navbar-collapse" id="navbarSupportedContent">  <div class="d-flex ml-auto flex-column flex-lg-row align-items-center">  <ul class="navbar-nav ">  <li class="nav-item active">  <a class="nav-link" href="index">HOME <span class="sr-only">(current)</span></a>  </li>  <li class="nav-item">  <a class="nav-link" href="about"> ABOUT </a>  </li>  <li class="nav-item">  <a class="nav-link" href="register">REGISTRATION</a>  </li>  <li class="nav-item">  <a class="nav-link" href="login"> LOGIN </a>  </li>  <li class="nav-item">  <a class="nav-link" href="userhome">USERHOME</a>  </li>  <li class="nav-item">  <a class="nav-link" href="upload">UPLOAD</a> </li>  </ul>  <div class="user\_option">  <a href="">  <img src="/static/images/user.png" alt="">  </a>  <form class="form-inline my-2 my-lg-0 ml-0 ml-lg-4 mb-3 mb-lg-0">  <button class="btn my-2 my-sm-0 nav\_search-btn" type="submit"></button>  </form>  </div>  </div>  </div>  </nav>  </div>  </header>  <!-- end header section -->  <!-- slider section -->  <section class=" slider\_section position-relative">  <div class="container">  <div id="carouselExampleIndicators" class="carousel slide" data-ride="carousel">  <ol class="carousel-indicators">  <li data-target="#carouselExampleIndicators" data-slide-to="0" class="active"></li>  <li data-target="#carouselExampleIndicators" data-slide-to="1"></li>  <li data-target="#carouselExampleIndicators" data-slide-to="2"></li> </ol> |
| <div class="carousel-inner">  <div class="carousel-item active">  <div class="row">  <div class="col">  <div class="detail-box">  <div>  <h2> welcome to |
| </h2>  <h1>  Deep Learning  </h1>  <p>  Detection of colorectal cancer  </p> |

<!-- end work section -->

<!-- client section -->

|  |
| --- |
| </script>  <!-- owl carousel script -->  <script type="text/javascript">  $(".owl-carousel").owlCarousel({ loop: true, margin: 0, navText: [], center: true, autoplay: true, autoplayHoverPause: true, responsive: {  0: { items: 1  },  1000: { items: 3  }  }  });  </script>  <!-- end owl carousel script --> |

</body>

</html>

Login.html

|  |
| --- |
| <!DOCTYPE html>  <html>  <head>  <!-- Basic -->  <meta charset="utf-8" />  <meta http-equiv="X-UA-Compatible" content="IE=edge" /> |

<!-- Mobile Metas -->

<meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no" />

<!-- Site Metas -->

<meta name="keywords" content="" />

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|  |
| --- |
| <!-- fonts style -->  <link href="https://fonts.googleapis.com/css?family=Open+Sans:400,700|Poppins:400,700&display=swap" rel="stylesheet">  <!-- Custom styles for this template -->  <link href="/static/css/style.css" rel="stylesheet" />  <!-- responsive style -->  <link href="/static/css/responsive.css" rel="stylesheet" /> </head> |
| <body>  <div class="hero\_area">  <!-- header section strats -->  <header class="header\_section">  <div class="container-fluid">  <nav class="navbar navbar-expand-lg custom\_nav-container pt-3">  <a class="navbar-brand" href="index.html">  <span>  Cancer  </span>  </a>  <button class="navbar-toggler" type="button" data-toggle="collapse" data-target="#navbarSupportedContent" aria-controls="navbarSupportedContent" aria-expanded="false" aria-label="Toggle navigation"> <span class="navbar-toggler-icon"></span>  </button> |
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<!-- end work section -->

<!-- client section -->

|  |
| --- |
| </script>  <!-- owl carousel script -->  <script type="text/javascript">  $(".owl-carousel").owlCarousel({ loop: true, margin: 0, navText: [], center: true, autoplay: true, autoplayHoverPause: true, responsive: {  0: { items: 1  },  1000: { items: 3  }  }  });  </script>  <!-- end owl carousel script --> |

</body>

</html>

Register.html

|  |
| --- |
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|  |
| --- |
| <link href="/static/css/style.css" rel="stylesheet" />  <!-- responsive style -->  <link href="/static/css/responsive.css" rel="stylesheet" /> </head> |
| <body class="sub\_page">  <div class="hero\_area">  <!-- header section strats -->  <header class="header\_section">  <div class="container-fluid">  <nav class="navbar navbar-expand-lg custom\_nav-container pt-3">  <a class="navbar-brand" href="index.html">  <span>  Cancer  </span>  </a>  <button class="navbar-toggler" type="button" data-toggle="collapse" data-target="#navbarSupportedContent" aria-controls="navbarSupportedContent" aria-expanded="false" aria-label="Toggle navigation"> <span class="navbar-toggler-icon"></span>  </button> |
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</div>

<!-- who section -->

|  |
| --- |
| <section class="who\_section layout\_padding">  <!-- <div class="container">  <div class="row">  <div class="col-md-5">  <div class="img-box">  <img src="/static/images/who-img.jpg" alt=""> </div>  </div>  <div class="col-md-7">  <div class="detail-box">  <div class="heading\_container"> -->  <form class="row g-3" action="/register" method="post">  {% csrf\_token %} <!-- <center>  <p style="color: white(0, 0, 0);">{{msg}}</p>  </center> --> |
| <div class="col-md-6">  <div class="form-outline mb-4">  <label class="form-label" for="form3Example1cg" style="color: white;">Your Name</label>  <input type="text" name="name" id="form3Example1cg" class="form-control" placeholder="Your Name" /> </div> |
| <div class="form-outline mb-4">  <label class="form-label" for="form3Example3cg" style="color: white;">Your Email</label>  <input type="email" name="email" id="form3Example3cg" class="form-control" placeholder="Your Email" /> </div> |
| <div class="form-outline mb-4">  <label class="form-label" for="form3Example4cg" style="color: white;">Password</label>  <input type="password" name="password" id="form3Example4cg" class="form-control" placeholder="Password" />  </div>  </div> |
| <div class="col-md-6">  <div class="form-outline mb-4">  <label class="form-label" for="form3Example4cdg" style="color: white;">Repeat your password</label>  <input type="password" name="conpassword" id="form3Example4cdg" class="form-control" placeholder="Repeat your Password" />  </div> |
| <div class="form-outline mb-4">  <label class="form-label" for="form3Example4cdg" style="color: white;">Age</label>  <input type="number" name="Age" id="form3Example4cdg" class="form-control" placeholder="Age" /> </div> |
| <div class="form-outline mb-4">  <label class="form-label" for="form3Example4cdg" style="color: white;">contact</label>  <input type="number" name="contact" pattern="[0-9]{10}" id="form3Example4cdg" class="form-control" placeholder="contact" required /> |
| </div>  </div> |
| <div class="d-flex justify-content-center">  <center> <button type="submit" class="btn btn-success">Register</button></center>  </div>  <h1>{{msg}}</h1>  </form> |

<!-- end info\_section -->

|  |
| --- |
| <!-- footer section -->  <section class="container-fluid footer\_section">  <p>  &copy; 2023 All Rights Reserved By YOUNG MINDS PRIVATE LIMITED  <!-- <a href="https://html.design/">Free Html Templates</a> -->  </p>  </section>  <!-- footer section --> |
| <script type="text/javascript" src="/static/js/jquery-3.4.1.min.js"></script>  <script type="text/javascript" src="/static/js/bootstrap.js"></script>  <script type="text/javascript" src="https://cdnjs.cloudflare.com/ajax/libs/OwlCarousel2/2.3.4/owl.carousel.min.js">  </script>  <!-- owl carousel script  -->  <script type="text/javascript">  $(".owl-carousel").owlCarousel({ loop: true, margin: 0, navText: [], center: true, autoplay: true, autoplayHoverPause: true, responsive: {  0: { items: 1  },  1000: { items: 3  }  }  });  </script>  <!-- end owl carousel script --> |

</body>

</html>

Result.html

<!DOCTYPE html>

<html>

<head>

<!-- Basic -->

<meta charset="utf-8" />

<meta http-equiv="X-UA-Compatible" content="IE=edge" />

<!-- Mobile Metas -->

<meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no" />

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| <a class="nav-link" href="login"> LOGIN </a>  </li>  <li class="nav-item">  <a class="nav-link" href="userhome">USERHOME</a>  </li>  <li class="nav-item">  <a class="nav-link" href="upload">UPLOAD</a> </li>  </ul>  <div class="user\_option">  <a href="">  <img src="/static/images/user.png" alt="">  </a>  <form class="form-inline my-2 my-lg-0 ml-0 ml-lg-4 mb-3 mb-lg-0">  <button class="btn my-2 my-sm-0 nav\_search-btn" type="submit"></button>  </form>  </div>  </div>  </div>  </nav>  </div>  </header>  <!-- end header section -->  <!-- slider section -->  <section class=" slider\_section position-relative">  <div class="container">  <div id="carouselExampleIndicators" class="carousel slide" data-ride="carousel">  <ol class="carousel-indicators">  <li data-target="#carouselExampleIndicators" data-slide-to="0" class="active"></li>  <li data-target="#carouselExampleIndicators" data-slide-to="1"></li>  <li data-target="#carouselExampleIndicators" data-slide-to="2"></li>  </ol>  <div class="carousel-inner">  <div class="carousel-item active">  <div class="row">  <div class="col">  <div class="detail-box">  <div>  <center> |

<h1 style="color: aliceblue;"><b>Result</b></h1>

<div class="col-md-6">

<img src="{{path1}}" width="250" height="250" />

|  |
| --- |
| <br>  <h2 style="color:wheat;">{{result}}</h2> <div><b>  <ul style="color:rgb(206, 91, 14); text-justify: auto; text-transform: capitalize;">  </b>  <strong>{% for x in msg %}</strong>  <li>{{ x }}</li> |
| {% endfor %}  </ul>  </div> |
| <style>  .button { border: none; color: black(255, 255, 255); padding: 10px 30px; text-align: center; text-decoration: none; display: inline-block; font-size: 16px; margin: 4px 2px; cursor: pointer;  } |

.button1 { background-color: #4CAF50;

}

/\* Green \*/

.button2 { background-color: #008CBA;

}

|  |
| --- |
| /\* Blue \*/  </style>  </head> |

<body>

<button class="button button1"><a href="/upload">Predict again</a></button>

</center>

<!-- end work section -->

<!-- client section -->

|  |
| --- |
| </script>  <!-- owl carousel script -->  <script type="text/javascript">  $(".owl-carousel").owlCarousel({ loop: true, margin: 0, navText: [], center: true, autoplay: true, autoplayHoverPause: true, responsive: {  0: { items: 1  }, |
| 1000: { items: 3  }  }  });  </script>  <!-- end owl carousel script --> |

</body>

</html>

Upload.html

|  |
| --- |
| <!DOCTYPE html>  <html>  <head>  <!-- Basic -->  <meta charset="utf-8" />  <meta http-equiv="X-UA-Compatible" content="IE=edge" />  <!-- Mobile Metas -->  <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no" /> <!-- Site Metas -->  <meta name="keywords" content="" />  <meta name="description" content="" />  <meta name="author" content="" /> |

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| </span>  </a>  <button class="navbar-toggler" type="button" data-toggle="collapse" data-target="#navbarSupportedContent" aria-controls="navbarSupportedContent" aria-expanded="false" aria-label="Toggle navigation"> <span class="navbar-toggler-icon"></span>  </button> |
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| <h2>UPLOAD THE IMAGE</h2>  </div>  </div>  <div class=" col-md-10 offset-md-1"> |
| {% csrf\_token %} <!-- <center>  <p style="color: white(0, 0, 0);">{{msg}}</p>  </center> --> |
| <center>  <form action="{% url 'upload' %}" method="post" enctype="multipart/form-data" style="width: 500px;">  {% csrf\_token %}  <input class="btn btn-primary btn-block btn-large form-control" type="file" name="file" accept="image/\*" />  <br> |
| <div class="div">  <input type="submit" value="submit">  </div>  <!-- </div> -->  </form> </center>  <!-- end work section --> |

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|  |
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Userhome.html

|  |
| --- |
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| <body>  <div class="hero\_area">  <!-- header section strats -->  <header class="header\_section">  <div class="container-fluid">  <nav class="navbar navbar-expand-lg custom\_nav-container pt-3">  <a class="navbar-brand" href="index.html">  <span>  Cancer  </span>  </a>  <button class="navbar-toggler" type="button" data-toggle="collapse" data-target="#navbarSupportedContent" aria-controls="navbarSupportedContent" aria-expanded="false" aria-label="Toggle navigation"> <span class="navbar-toggler-icon"></span>  </button> |
| <div class="collapse navbar-collapse" id="navbarSupportedContent">  <div class="d-flex ml-auto flex-column flex-lg-row align-items-center">  <ul class="navbar-nav ">  <li class="nav-item active">  <a class="nav-link" href="index">HOME <span class="sr-only">(current)</span></a>  </li>  <li class="nav-item">  <a class="nav-link" href="about"> ABOUT </a> |
| </li>  <li class="nav-item">  <a class="nav-link" href="register">REGISTRATION</a>  </li>  <li class="nav-item">  <a class="nav-link" href="login"> LOGIN </a>  </li>  <li class="nav-item">  <a class="nav-link" href="userhome">USERHOME</a>  </li>  <li class="nav-item">  <a class="nav-link" href="upload">UPLOAD</a> </li>  </ul>  <div class="user\_option">  <a href="">  <img src="/static/images/user.png" alt="">  </a>  <form class="form-inline my-2 my-lg-0 ml-0 ml-lg-4 mb-3 mb-lg-0">  <button class="btn my-2 my-sm-0 nav\_search-btn" type="submit"></button>  </form>  </div>  </div>  </div>  </nav>  </div>  </header>  <!-- end header section -->  <!-- slider section -->  <section class=" slider\_section position-relative">  <div class="container">  <div id="carouselExampleIndicators" class="carousel slide" data-ride="carousel">  <ol class="carousel-indicators">  <li data-target="#carouselExampleIndicators" data-slide-to="0" class="active"></li>  <li data-target="#carouselExampleIndicators" data-slide-to="1"></li>  <li data-target="#carouselExampleIndicators" data-slide-to="2"></li>  </ol>  <div class="carousel-inner">  <div class="carousel-item active">  <div class="row">  <div class="col">  <div class="detail-box">  <div>  <h1> <strong>DETECTION COLORECTAL CANCER</strong></h1>  <p>BY USING DEEP LEARNING</p>  <!-- end work section --> |

<!-- client section -->

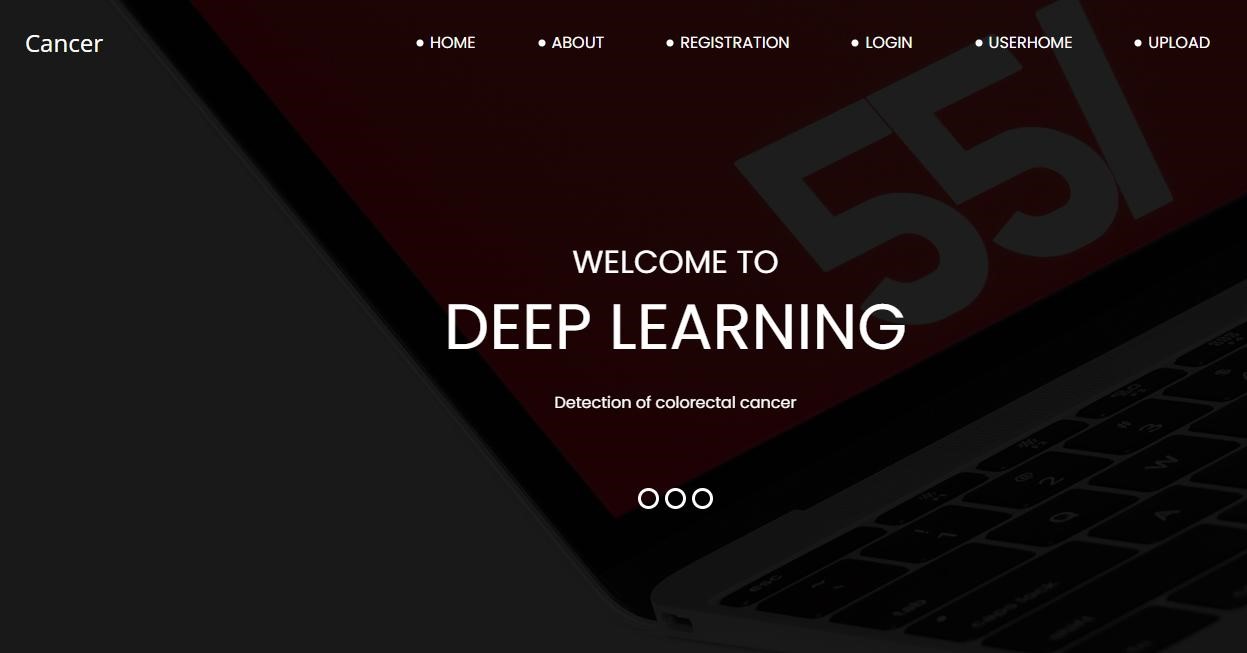
|  |
| --- |
| </script>  <!-- owl carousel script -->  <script type="text/javascript">  $(".owl-carousel").owlCarousel({ loop: true, margin: 0, |
| navText: [], center: true, autoplay: true, autoplayHoverPause: true, responsive: {  0: { items: 1  },  1000: { items: 3  }  }  });  </script>  <!-- end owl carousel script --> |

</body>

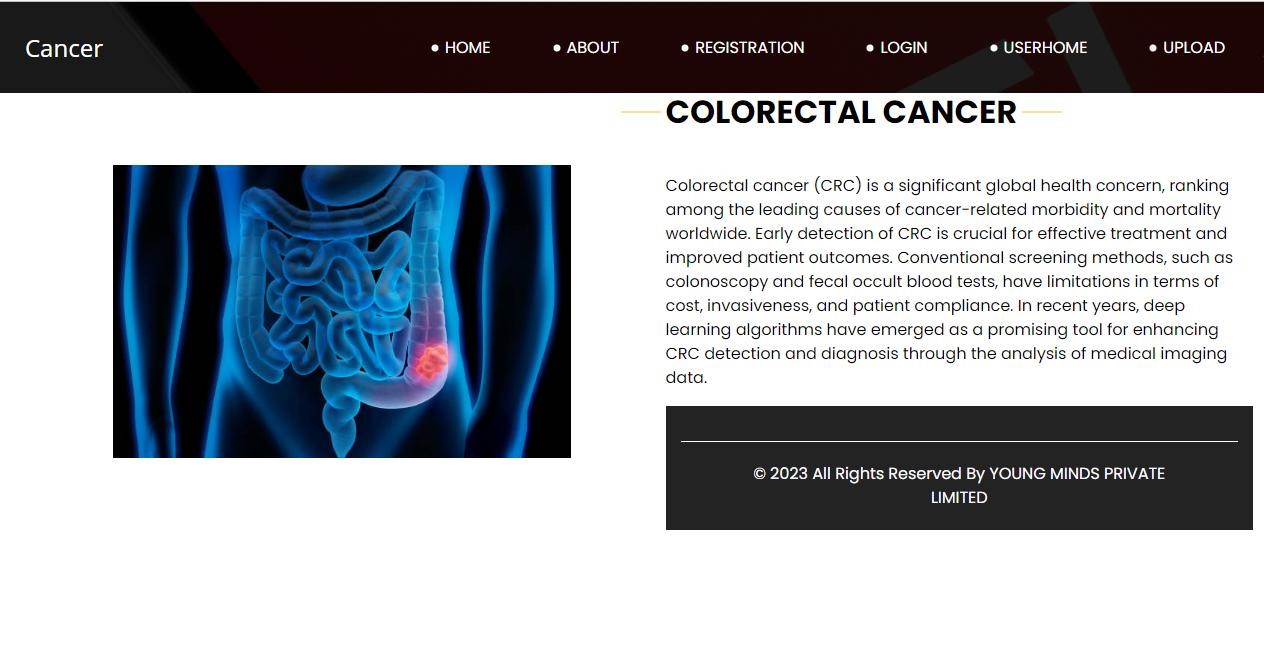
</html>

**B . SCREEN SHOTS**

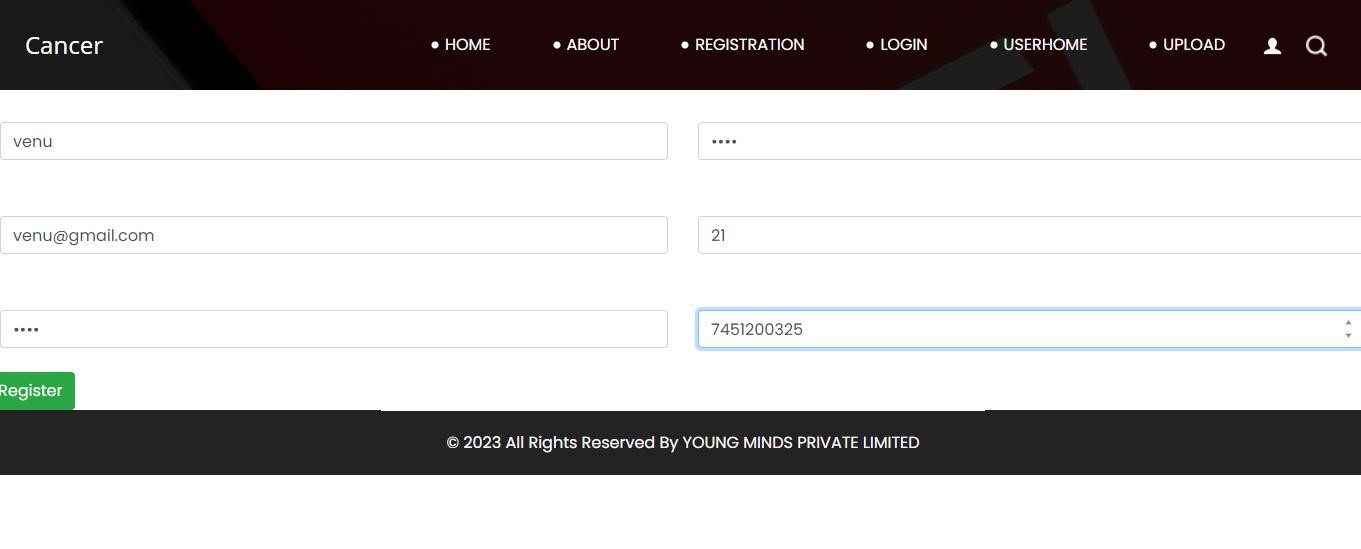
### HOME PAGE



**ABOUT PAGE**



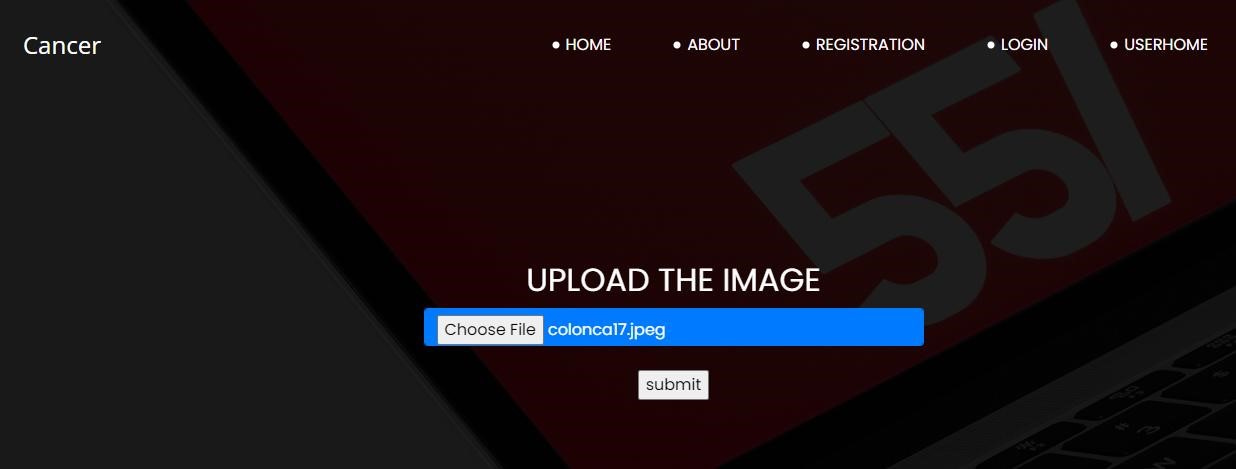
**REGISTRATION PAGE:**



**USER HOME PAGE:**



**UPLOAD PAGE:**



**RESULT PAGE:**

