



Department : Computer Science and Engineering		
Academic Year : 2021-22		
Sr. No.	Programme Code	Name of the Programme
01.	213	B. Tech. (Computer Science and Engineering)

Following students have carried out their Project for the academic session 2021-22

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A Project Report
On
PLANT LEAF DISEASE DETECTION & CLASSIFICATION

Submitted in partial fulfilment of the requirement for the award of
BACHELOR OF TECHNOLOGY
IN
Computer Science & Engineering

UNDER THE GUIDANCE OF
Mr. Nishant Behar
Assistant Professor

SUBMITTED BY

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CERTIFICATE

I hereby certify that the work which is being presented in the B.Tech. Major Project Report entitled "**Plant Leaf Disease Detection & Classification**", in partial fulfilment of the requirements for the award of the Bachelor of Technology in Computer Science and Engineering and submitted to the Department of Computer Science and Engineering, Institute of Technology, Guru Ghasidas Vishwavidyalaya (A ^{AI-K} Central University), Bilaspur, Chhattisgarh, India is an authentic record of my own work carried out during a period from Jan 2022 to March 2022 (8th semester) under the supervision of **Mr. Nishant Behar, Assistant professor, CSE Department.**

The matter presented in this Project Report has not been submitted by me or by anyone else for the award of any other degree elsewhere.

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Dr. Alok Kumar Singh Kushwaha

Head, Department of Computer Science and Engineering

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Central University, Bilaspur, Chhattisgarh, India

DECLARATION

We hereby declare that the work presented in this dissertation entitled “**Plant Leaf Disease Detection & Classification**” submitted to the “**Department of Computer Science & Engineering**”, under the guidance of “**Mr. Nishant Behar**” has been done by us, and this dissertation embodies our own work. The work is original as it has not been earlier submitted either in part or full for any purpose before by us or anyone else.

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ACKNOWLEDGEMENT

We express our sincere gratitude to **Mr. Nishant Behar**, Assistant Professor, Department of Computer Science and Engineering, Guru Ghasidas Vishwavidyalaya, Central University, Bilaspur, Chhattisgarh, India for her simulating guidance, continuous encouragement, and supervision throughout the course of present work

We would like to place on record our deep sense of gratitude to **Dr. Alok Kumar Singh Kushwaha**, Assistant Professor and HOD-Dept. of Computer Science and Engineering, School of studies in engineering and technology, Guru Ghasidas Vishwavidyalaya, Central University, Bilaspur, Chhattisgarh, India for his generous guidance, help and useful suggestions.

We are extremely thankful to Professor T.V. Arjunan, Dean, SoS E&T, Guru Ghasidas Vishwavidyalaya Central University, Bilaspur, Chhattisgarh, India for providing us infrastructural facilities to work in, without which this work would not have been possible.

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ABSTRACT

The study of Plant Diseases refers to the studies of visually observable patterns of a particular plant. Nowadays crops face many diseases. This report provides a method to detect disease by calculating leaf area through pixel number statistics. The method studied is for increasing throughput and reducing subjectiveness arising from human experts in detecting the leaf disease.

Leaf spots can be indicative of crop diseases, where leaf batches are examined manually and subjected to expert opinion. In this paper an Image Processing system is developed to automate the inspection of these leaf spots.

Deep learning with convolutional neural networks (CNNs) has achieved great success in the classification of various plant diseases. However, a limited number of studies have elucidated the process of inference, leaving it as an untouchable black box. Revealing the CNN to extract the learned feature as an interpretable form not only ensures its reliability but also enables the validation of the model authenticity and the training dataset by human intervention. In this study, a variety of neuron-wise and layer-wise visualization methods were applied using a CNN, trained with a publicly available plant disease image dataset. We showed that neural networks can capture the colours and textures of lesions specific to respective diseases upon diagnosis, which resembles human decision-making. While several visualization methods were used as they are, others had to be optimized to target a specific layer that fully captures the features to generate consequential outputs. Moreover, by interpreting the generated attention maps, we identified several layers that were not contributing to inference and removed such layers inside the network, decreasing the number of parameters by 75% without affecting the classification accuracy. The results provide an impetus for the CNN black box users in the field of plant science to better understand the diagnosis process and lead to further efficient use of deep learning for plant disease diagnosis.

A
Project Report
On

---Activity Detection Through Videos---

Submitted in partial fulfillment of the requirement for the award of
BACHELOR OF TECHNOLOGY

in

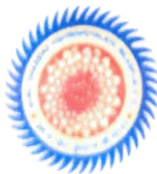
Branch (Computer Science and Engineering)

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CERTIFICATE

I hereby certify that the work which is being presented in the B.Tech. Major Project Report entitled “**Activity Detection Through Videos**”, in partial fulfillment of the requirements for the award of the Bachelor of Technology in Computer Science and Engineering and submitted to the Department of Computer Science and Engineering, Institute of Technology, Guru Ghasidas Vishwavidyalaya, Central University, Bilaspur, Chhattisgarh, India is an authentic record of my own work carried out during a period from December 2021 to April 2022(8th semester) under the supervision of **Mr. Nishant Behar**, Assistant Professor, CSE Department.

The matter presented in this Project Report has not been submitted by me or by anyone else for the award of any other degree elsewhere.

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DECLARATION

I hereby declare that the project work entitled "Activity Detection Through Videos" submitted to the Institute of Technology, Guru Ghasidas Vishwavidyalaya, is a record of an original work done by us under the guidance of **Mr. Nishant Behar**, Assistant Professor Department of Computer Science and Engineering, and this project is submitted in the partial fulfillment of requirements for the award of the degree of Bachelor of Technology in Computer Science and Engineering. The results embodied in this thesis have not been submitted to any other University or Institute for the award of any degree or diploma.

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We express my sincere gratitude to **Dr. Alok Kumar Singh Kushwaha**, Associate Professor and HOD-Dept. of Computer Science and Engineering, Institute of Technology, Guru Ghasidas Vishwavidyalaya, Central University, Bilaspur, Chhattisgarh, India for his generous guidance, help, and useful suggestions.

We are extremely thankful to **Prof T V Arjunan**, Dean, School of Studies(Engg. & Tech.), Guru Ghasidas Vishwavidyalaya, Central University, Bilaspur, Chhattisgarh, India for providing us with infrastructural facilities to work in, without which this work would not have been possible.

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ABSTRACT

Most natural videos contain a large number of events. For example, in a video featuring "The Man Playing the Piano," the video may also include "Another Dancing Man" or "Applause of the Crowd." Introducing the task of event compression. In this task, the event is recognized and explained in the video. We propose a new model that can identify all events in one pass of the video while describing the detected events using natural language. Our model introduces a variant of the existing proposal engine designed to capture both short and long events over minutes. To capture the dependencies between events in the video, this model introduces a new captcha engine that uses contextual information from past and future events to describe all events together. It also introduces ActivityNetCaptions, a large benchmark for dense captions of events. ActivityNet Captions contains a total of 20,000 videos. There are a total of 849 hours of video and a total of 100,000 instructions, each with its own start and end times. Finally, we report on the performance of the model for event aggregation, video acquisition, and localization.

Subtitle generation is one of the interesting and focused areas of artificial intelligence that faces many challenges. Subtitling includes a variety of complex scenarios such as dataset selection, model training, model validation, pre-trained model creation to test videos, video recognition, and finally subtitle generation. It will be.

**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
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**A
MAJOR PROJECT REPORT
ON
Driver Drowsiness Detection**

Submitted in partial fulfillment of the requirement for the award of
BACHELOR OF TECHNOLOGY

In
COMPUTER SCIENCE AND ENGINEERING

UNDER THE GUIDANCE OF

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The matter presented in this Project Report has not been submitted by me or by anyone else for the award of any other degree elsewhere.

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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING



INSTITUTE OF TECHNOLOGY

GURU GHASIDAS VISHWAVIDYALAYA, BILASPUR, CHHATTISGARH

A
Project Report
On

**IMAGE BACKGROUND REMOVAL USING MODNET
&
BUILDING 3D HUMAN FIGURE USING PIFU-HD**

**Submitted in partial fulfillment of the requirement for the award of
BACHELOR OF TECHNOLOGY
in
(Computer Science and Engineering)**

UNDER THE GUIDANCE OF

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I hereby certify that the work which is being presented in the B.Tech Major Project Report entitled “ **Image Background Removal Using MODNet & Building 3D Human Figure using PIFuHD** ”, in partial fulfillment of the requirements for the award of the Bachelor of Technology in Computer Science and Engineering and submitted to the Department of Computer Science and Engineering, Institute of Technology, Guru Ghasidas Vishwavidyalaya (A Central University), Bilaspur, Chhattisgarh, India is an authentic record of my own work carried out during a period from January,2022 to April,2022(8th semester) under the supervision of Mr.Manjeet Jaiswal , an Assistant Professor of CSE Department.

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DECLARATION

I hereby declare that the project work entitled “ **Image Background Removal Using MODNet & Building 3D Human Figure using PIFuHD** ” submitted to the Institute of Technology, Guru Ghasidas Vishwavidyalaya, is a record of an original work done by us under the guidance of **Mr. Manjit Jaiswal**, Assistant Professor Department of Computer Science and Engineering, and this project is submitted in the partial fulfillment of requirements for the award of the degree of Bachelor of Technology in Computer Science and Engineering. The results embodied in this thesis have not been submitted to any other University or Institute for the award of any degree or diploma.

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A
Project Report
On

Sign Language Recognition

Submitted in partial fulfillment of the requirement for the award of
BACHELOR OF TECHNOLOGY

in

COMPUTER SCIENCE AND ENGINEERING

UNDER THE GUIDANCE OF
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(Assistant Professor)

SUBMITTED BY

UNDER THE GUIDANCE OF

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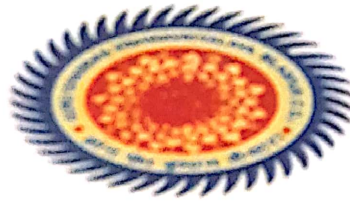
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We hereby certify that the work which is being presented in the Bachelor of Technology, Major Project Report entitled "Sign Language Recognition", in partial fulfilment of the requirements for the award of the **Bachelor of Technology in Computer Science and Engineering**, School of Studies of Engineering and Technology, Guru Ghasidas Vishwavidyalaya (A Central University), Bilaspur, Chhattisgarh, India and submitted to the Department of Computer Science and Engineering, School of Studies of Engineering and Technology, Guru Ghasidas Vishwavidyalaya (A Central University), Bilaspur, Chhattisgarh, India is an authentic record of my own work carried out during a period from December 2021 to April 2022 (8th semester) under the supervision of **Mr. Vaibhav Kant Singh, Assistant Professor, Department of Computer Science & Engineering**, School of Studies of Engineering and Technology, Guru Ghasidas Vishwavidyalaya (A Central University), Bilaspur, Chhattisgarh, India.

The matter presented in this Project Report has not been submitted by us or by anyone else for the award of any other degree elsewhere. Signature of Students

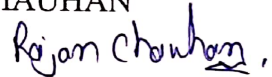
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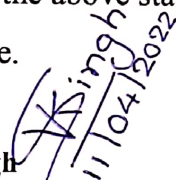
This is to certify that the above statement made by the student(s) is correct to the best of my knowledge.

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We here by declare that the work presented in this dissertation entitled “**Sign Language Recognition**” submitted to the “**Department of Computer Science & Engineering, School of Studies of Engineering and Technology, Guru Ghasidas Vishwavidyalaya, Central University, Bilaspur, Chhattisgarh, India**”. Under the guidance of **Mr. Vaibhav Kant Singh**, Assistant Professor, Department of Computer Science & Engineering, School of Studies of Engineering and Technology, Guru Ghasidas Vishwavidyalaya, Central University, Bilaspur, Chhattisgarh, India has been done by us, and this report embodies our own work. The work is original as it has not been earlier submitted either in part or full for any purpose before by us or anyone else.

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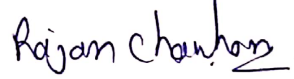
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ACKNOWLEDGEMENT

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We extremely thankful to Associate Professor to **Dr. Alok Kumar Singh Kushwaha**, Associate Professor & Head Department of Computer Science and Engineering, School of Studies of Engineering and Technology, Guru Ghasidas Vishwavidyalaya, Central University, Bilaspur, Chhattisgarh, India for his generous guidance, help and useful suggestions.

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**A
Major Project Report
On**

----SmartDoc----

**Submitted in partial fulfillment of the requirement for the award of
BACHELOR OF TECHNOLOGY**

in

Computer Science & Engineering

UNDER THE GUIDANCE OF :

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SCHOOL OF STUDIES IN ENGINEERING & TECHNOLOGY


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INDIA

April, 2022



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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
SCHOOL OF STUDIES IN ENGINEERING & TECHNOLOGY
GURU GHASIDAS VISHWAVIDYALAYA, BILASPUR (C.G)

CERTIFICATE

We hereby certify that the work which is being presented in the B.Tech. Major Project Report entitled “SmartDoc”, in partial fulfillment of the requirements for the award of the Bachelor of Technology in Computer Science and Engineering and submitted to the Department of Computer Science and Engineering, School of Studies in Engineering & Technology, Guru Ghasidas Vishwavidyalaya (A Central University), Bilaspur, Chhattisgarh, India is an authentic record of my own work carried out during a period from January 2022 to April 2022 (8th semester) under the supervision of Mr. Pushpendra Kumar Chandra, Assistant Professor, CSE Department. The matter presented in this Project Report has not been submitted by us or by anyone else for the award of any other degree elsewhere.

Name of student

Signature of Student(s)

Deepesh Garg (18103019)

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This is to certify that the above statement made by the student(s) is correct to the best of my knowledge.

Signature of Supervisor(s)

Date : 08/04/2022

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G.G.Vishwavidyalaya, Bilaspur (C.G.)

DECLARATION

We, the undersigned solemnly declare that the project report “SMARTDOC” is based on our own work carried out during the course of our study under the supervision of **Mr. Pushendra Kumar Chandra**, Assistant Professor, Dept. of Computer Science and Engineering, School of Studies in Engineering and Technology, Guru Ghasidas Vishwavidyalaya, Central University, Bilaspur, Chhattisgarh, India.

We assert the statements made and conclusions drawn are an outcome of my research work. We further certify that

- I. The work contained in the report is original and has been done by us under the general supervision of our supervisor.
- II. The work has not been submitted to any other Institution for any other degree/diploma/certificate in this university or any other University of India or abroad.
- III. We have followed the guidelines provided by the university in writing the report.
- IV. Whenever we have used materials (data, theoretical analysis, and text) from other sources, we have given due credit to them in the text of the report and given their details in the references.

Date : 08/04/2022

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ACKNOWLEDGEMENT

We would like to place on record our deep sense of gratitude to **Mr. Pushendra Kumar Chandra**, Assistant Professor, Dept. of Computer Science and Engineering, School of Studies in Engineering and Technology, Guru Ghasidas Vishwavidyalaya, Central University, Bilaspur, Chhattisgarh, India, for his stimulating guidance, continuous encouragement and supervision throughout the course of present work.

We express our sincere gratitude to **Dr. Alok Kumar Singh Kushwaha**, Associate Professor and HOD-Dept. of Computer Science and Engineering, School of Studies in Engineering and Technology, Guru Ghasidas Vishwavidyalaya, Central University, Bilaspur, Chhattisgarh, India for his generous guidance, help and useful suggestions.

We are extremely thankful to **Prof T.V.Arjunan** , Dean, School of Studies(Engg. & Tech.), Guru Ghasidas Vishwavidyalaya, Central University, Bilaspur, Chhattisgarh, India for providing us infrastructural facilities to work in, without which this work would not have been possible.

Date : 08/04/2022

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ABSTRACT

While it may be hard to accept, most of us will require some type of care assistance after a certain age .They may be used to handling everything themselves, dividing up duties with their spouse, or relying on family members for minor help around the home. But as they get older and their circumstances change, getting around and taking care of themselves can become more and more difficult. While increasing age gives so many health issues to the older citizens who forget things easily. Mostly aged people have Dementia and they forget things easily most of the time their medicines too. Medicines help us live longer and healthier. But, taking them the wrong way or mixing certain drugs can be dangerous. Side effects can be relatively minor, such as a headache or a dry mouth. They can also be life-threatening, such as severe bleeding or irreversible damage to the liver or kidneys. Medications' side effects also can affect your driving. With this we need to be careful to keep track of our medicines and use them safely.

Artificial intelligence is showing great promise in areas of health care. From smartphones to motion sensors, technology experts are using the Internet to get wireless devices to talk to each other to keep older citizens and many other patients safe and improve their health and well-being.

Polypharmacy plays an important role in aged patients Memorizing multiple drug instructions is tedious and challenging Missing a dose or overdose is harmful Drug interactions may decrease efficacy and introduce side effects Therefore, with a motive to help the senior citizens , we have successfully presented an medical assistant app, Through this application, we aim to provide Easily “scan-and-input” the medical prescription using Optical Character Recognition (OCR), courtesy of Google Cloud Vision API Personalized drug schedule on daily routine, and record meals, exercise, and medical history based on the previous data.

A
Project Report
On
**Cardiovascular Disease Prediction
Using Machine Learning**

Submitted in partial fulfillment of the requirement for the award of
BACHELOR OF TECHNOLOGY
in
COMPUTER SCIENCE AND ENGINEERING

UNDER THE GUIDANCE OF

MR. SATISH NEGI
(Assistant Professor)

SUBMITTED BY

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**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING,
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UNIVERSITY, BILASPUR, CHHATTISGARH**

CERTIFICATE

We hereby certify that the work which is being presented in the Bachelor of Technology, Major Project Report entitled “Cardiovascular Disease Prediction Using Machine Learning”, in partial fulfillment of the requirements for the award of the **Bachelor of Technology in Computer Science and Engineering** and submitted to the Department of Computer Science and Engineering, School of Studies of Engineering and Technology, Guru Ghasidas Vishwavidyalaya (A Central University), Bilaspur, Chhattisgarh, India is an authentic record of my own work carried out during a period from December 2021 to April 2022 (8th semester) under the supervision of **Mr. Satish Negi, Assistant Professor, Department of Computer Science & Engineering**.

The matter presented in this Project Report has not been submitted by us or by anyone else for the award of any other degree elsewhere.

Signature of Students

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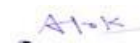
This is to certify that the above statement made by the student(s) is correct to the best of my knowledge.



Signature of Supervisor

Mr. Satish Negi
(Assistant Professor)

Date:



Dr. Alok Kumar Singh Kushwaha
Head, Department of Computer Science & Engineering

DECLARATION

We hereby declare that the work presented in this dissertation entitled **“Cardiovascular Disease Prediction Using Machine Learning”** submitted to the **“Department of Computer Science & Engineering, School of Studies of Engineering and Technology, Guru Ghasidas Vishwavidyalaya, Central University, Bilaspur, Chhattisgarh, India”**, Under the guidance of **“Mr. Satish Negi”** has been done by us, and this report embodies our own work. The work is original as it has not been earlier submitted either in part or full for any purpose before by us or anyone else.

Name of Students

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ACKNOWLEDGEMENT

We express our sincere gratitude to **Mr. Satish Negi**, Assistant Professor, Department of Computer Science and Engineering, School of Studies of Engineering and Technology, Guru Ghasidas Vishwavidyalaya, Central University, Bilaspur, Chhattisgarh, India, for his stimulating guidance, continuous encouragement and supervision throughout the course of present work.

We extremely thankful to Associate Professor to **Dr. Alok Kumar Singh Kushwaha**, Associate Professor & Head Department of Computer Science and Engineering, School of Studies of Engineering and Technology, Guru Ghasidas Vishwavidyalaya, Central University, Bilaspur, Chhattisgarh, India for his generous guidance, help and useful suggestions.

We are extremely thankful to **Professor T.V. Arjunan**, Dean, School of Studies of Engineering & Technology, Guru Ghasidas Vishwavidyalaya, Central University, Bilaspur, Chhattisgarh, India for providing us infrastructural facilities to work in, without which this work would not have been possible.

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A
Project Report
On
**“Real Time Face Mask Detection
system”**

Submitted in partial fulfilment of the requirement for the award of Degree of
Bachelors of Technology
In
Computer Science and Engineering



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
SCHOOL OF STUDIES ENGINEERING AND TECHNOLOGY,
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S.G.Vishwavidyalaya, Bilaspur (C.G.)

CERTIFICATE

I hereby certify that the work which is being presented in Bachelor of Technology Major Project Report entitled “ **Real Time Face Mask Detection System** ”, in partial fulfillment of the requirements for the **Bachelor of Technology in Computer Science and Engineering** and submitted to the Department of Computer Science and Engineering, Institute of Technology, Guru Ghasidas Vishwavidyalaya, Central University, Bilaspur , Chhattisgarh, India is an authentic record of my own work carried out during a period from **jan 2021 to april 2022 (8th Semester)** under the supervision of **Mr. Manjit Jaiswal, Assistant Professor, CSE Department.**

The matter present in this Project Report has not been submitted by me or by anyone else for the award of any other degree elsewhere.

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Signature of Supervisor

Mr. Manjit Jaiswal

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(Associate Professor, HOD CSE - Department)



DECLARATION

We hereby declare that the project report “**Real Time Face Mask Detection System**” submitted by us to School of Studies in Engineering and Technology, Guru Ghasidas Vishwavidyalaya, Bilaspur is record of original work done by us in the guidance of **Mr. Manjit Jaiswal, Assistant Professor, CSE Department** and this project is partial fulfilment for the requirement for the award of Bachelor of Technology in Computer Science and Engineering. We further declare that the work reported in this project has not been submitted and will not be submitted, either in part or in full, for the award of any other degree or diploma in this institute or any other institute or university.

Name of Student

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ACKNOWLEDGMENT

We would like to place on record our deep sense of gratitude to **Dr. Alok Kumar Singh Kushwaha**, Associate Professor and HOD-Department of Computer Science & Engineering, Institute of Technology, Guru Ghasidas Vishwavidyalaya, Central University ,Bilaspur , Chhattisgarh , India for his generous guidance, help and useful suggestions.

We express our sincere gratitude to **Mr. Manjit Jaiswal**, Assistant Professor, Department of Computer Science & Engineering, Institute of Technology, Guru Ghasidas Vishwavidyalaya, Central University, Bilaspur, Chhattisgarh, India for his stimulating guidance, continuous encouragement and supervision throughout the course of present work.

We are extremely thankful to **Dr. T. V. Arjunan**, Dean, School of Studies in Engineering and Technology, Guru Ghasidas Vishwavidyalaya, Central University, Bilaspur, Chhattisgarh, India for providing me infrastructural facilities to work in, without which this work would not have been possible.

I also wish to extend my thanks to the faculty and my other classmates for inspiration and encouragement and for their insightful comments and constructive suggestions to improve the quality of this project work.

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S.G.Vishwavidyalaya, Bilaspur (C.G.)

A
Project Report
On
Diagnosis of Thyroid Using Machine Learning

Submitted in partial fulfillment of the requirement for the award of
BACHELOR OF TECHNOLOGY

in

COMPUTER SCIENCE AND ENGINEERING

UNDER THE GUIDANCE OF

MR. VAIBHAV KANT SINGH
(Assistant Professor)

SUBMITTED BY

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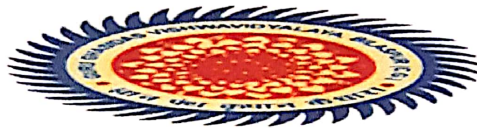
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CERTIFICATE

We hereby certify that the work which is being presented in the Bachelor of Technology, Major Project Report entitled "Diagnosis of Thyroid using Machine Learning", in partial fulfilment of the requirements for the award of the **Bachelor of Technology in Computer Science and Engineering** and submitted to the Department of Computer Science and Engineering, School of Studies of Engineering and Technology, Guru Ghasidas Vishwavidyalaya (A Central University), Bilaspur, Chhattisgarh, India is an authentic record of our own work carried out during a period from December 2021 to April 2022 (8th semester) under the supervision of **Mr. Vaibhav Kant Singh**, Assistant Professor, Department of Computer Science & Engineering, SoS E&T, GGV, (Central University), Bilaspur, Chhattisgarh, India.

The matter presented in this Project Report has not been submitted by us or by anyone else for the award of any other degree elsewhere.

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This is to certify that the above statement made by the students is correct to the best of my knowledge.

Signature of Supervisor

Mr. Vaibhav Kant Singh

(Assistant Professor)

Date: 11-04-2022

V. Singh
11/04/2022

Alok
Dr Alok Kumar Kushwaha

Head, Department of Computer Science & Engineering

DECLARATION

We here by declare that the work presented in this dissertation entitled "DIAGNOSIS OF THYROID USING MACHINE LEARNING" submitted to the "Department of Computer Science & Engineering, School of Studies of Engineering and Technology, Guru Ghasidas Vishwavidyalaya, Central University, Bilaspur, Chhattisgarh, India". Under the guidance of Mr. Vaibhav Kant Singh, Assistant Professor, Department of CSE, SoS E&T, GGV, Bilaspur, (C.G.), India has been done by us, and this report embodies our own work. The work is original as it has not been earlier submitted either in part or full for any purpose before by us or anyone else.

Name of Students

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ACKNOWLEDGEMENT

We express our sincere gratitude to **Mr. Vaibhav Kant Singh**, Assistant Professor, Department of Computer Science and Engineering, School of Studies of Engineering and Technology, Guru Ghasidas Vishwavidyalaya, Central University, Bilaspur, Chhattisgarh, India, for his stimulating guidance, continuous encouragement and supervision throughout the course of present work.

We are extremely thankful to Associate Professor to **Dr. Alok Kumar Singh Kushwaha**, Associate Professor & Head Department of Computer Science and Engineering, School of Studies of Engineering and Technology, Guru Ghasidas Vishwavidyalaya, Central University, Bilaspur, Chhattisgarh, India for his generous guidance, help and useful suggestions.

We are extremely thankful to **Professor T.V. Arjunan**, Dean, School of Studies of Engineering & Technology, Guru Ghasidas Vishwavidyalaya, Central University, Bilaspur, Chhattisgarh, India for providing us infrastructural facilities to work in, without which this work would not have been possible.

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G. Vishwavidyalaya, Bilaspur (C.G.)

A
Project Report
ON
TWITTER SENTIMENT ANALYSIS
Submitted in partial fulfilment of the requirement for the award of
BACHELOR OF TECHNOLOGY

in
COMPUTER SCIENCE AND ENGINEERING

UNDER THE GUIDANCE OF

MR. VAIBHAV KANT SINGH
(Assistant Professor)

SUBMITTED BY

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RAJAN CHAUHAN

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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING, SCHOOL OF STUDIES
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CENTRAL UNIVERSITY, BILASPUR, CHHATTISGARH, INDIA

CERTIFICATE

We here by certify that the work which is being presented in the Bachelor of Technology Major Project Report entitled "TWITTER SENTIMENT ANALYSIS", in partial fulfilment of the requirements for the award of the Bachelor of Technology in Computer Science and Engineering and submitted to the Department of Computer Science and Engineering, School of Studies in Engineering & Technology, Guru Ghasidas

Vishwavidyalaya (A Central University), Bilaspur, Chhattisgarh, India is an authentic record of my own work carried out during a period from July 2021 to November 2021 (7th semester) under the supervision of Mr. Vaibhav Kant Singh, Assistant professor, Department of CSE. The matter presented in this Project Report has not been submitted by us or by anyone else for the award of any other degree elsewhere.

Name of Students

CHANDRASHEKHAR (18103017)

RAJAN CHAUHAN (18103044)

Signature of Students

चन्द्रशेखर

Rajan Chauhan

This is to certify that the above statement made by the student(s) is correct to the best of my knowledge.

Signature of Supervisor

Mr. Vaibhav Kant Singh, Assistant Professor

Date: 28/11/2021

Dr. Alok Kumar Singh Kushwaha

Head of Department Computer Science & Engineering

DECLARATION

We hereby declare that the work presented in this dissertation entitled "TWITTER SENTIMENT ANALYSIS" submitted to the "Department of Computer Science & Engineering", "School of Studies in Engineering and Technology", "Guru Ghasidas Vishwavidyalaya, Central University Bilaspur C.G." under the guidance of "Mr. VAIBHAV KANT SINGH" has been done by us, and this dissertation embodies our own work. The work is original as it has not been earlier submitted either in part or full for any purpose before by us or anyone else.

Name of Students

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RAJAN CHAUHAN (18103044)

ACKNOWLEDGEMENT

We express our sincere gratitude to **Mr. VAIBHAV KANT SINGH** Assistant Professor, Department of Computer Science and Engineering, Guru Ghasidas Vishwavidyalaya, Central University, Bilaspur, Chhattisgarh, India for his simulating guidance, continuous encouragement and supervision throughout the course of present work.

We extremely thankful to Professor **T.V. Arjunan**, Dean, School of Studies in Engineering and Technology, Guru Ghasidas Vishwavidyalaya, Central University, Bilaspur, Chhattisgarh, India for providing us infrastructural facilities to work in, without which this work would not have been possible.

We would like to place on record our deep sense of graduate to **Dr. Alok Kumar Singh Kushwaha** ,Associate Professor and HEAD-Department of Computer Science and Engineering, School of Studies in Engineering and Technology, Guru Ghasidas Vishwavidyalaya, Central University, Bilaspur, Chhattisgarh, India for his generous guidance, help and useful suggestions.

Signature of Students

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Rajan Chauhan

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**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
INSTITUTE OF TECHNOLOGY**

GURU GHASIDAS VISHWAYDALAYA, BILASPUR, INDIA



A

MAJOR PROJECT REPORT

ON

“BLOOD DISEASE DETECTION”

Submitted in partial fulfilment of the requirement for the award of
BACHELOR OF TECHNOLOGY

In

COMPUTER SCIENCE AND ENGINEERING

UNDER THE GUIDANCE OF

MR. SATISH NEGI

(Assistant Professor)

SUBMITTED BY:

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RAHUL KUMAR JANGIR (18103043)

MANISH GUPTA (18103031)

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**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
INSTITUTE OF TECHNOLOGY**

GURU GHASIDAS VISHWAYDALAYA, BILASPUR, INDIA



CERTIFICATE

I hereby certify that the work which is being presented in the B.Tech. Major Project Report entitled “**Blood Disease Detection**”, in partial fulfilment of the requirements for the award of the Bachelor of Technology in Computer Science and Engineering and submitted to the Department of Computer Science and Engineering, Institute of Technology, Guru Ghasidas Vishwavidyalaya (A Central University), Bilaspur, Chhattisgarh, India is an authentic record my own work carried out during a period from Jan 2022 to March 2022 (8th semester) under the supervision of **Mr.Satish Negi, Assistant professor, CSE Department.**

The matter presented in this Project Report has not been submitted by me or by anyone else for the award of any other degree elsewhere.

Signature of Student (S)

RAHUL KUMAR JANGIR (18103043) RISHABH RAJ (18103046) MANISH GUPTA (18103031)

This is to certify that the above statement made by the student(s) is correct to the best of my knowledge

Date :

Mr. Satish Negi
(Assistant Professor).

Dr. Alok Kumar Singh Kushwaha
(Head of Department)

DECLARATION

We hereby declare that the work presented in this dissertation entitled "**BLOOD DISEASE DETECTION** " submitted to the "**Department of Computer Science & Engineering**" under the guidance of "**MR. SATISH NEGI** " has been done by us, and this dissertation embodies our own work. The work is original as it has not been earlier submitted either in part or full for any purpose before by us or anyone else.

Signature of students :

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ACKNOWLEDGEMENT

We express our sincere gratitude to **Mr.Satish Negi**, Assistant Professor, Department of Computer Science and Engineering, Guru Ghasidas Vishwavidyalaya, Central University, Bilaspur, Chhattisgarh, India for her simulating guidance, continuous encouragement and supervision throughout the course of present work.

We would like to place on record our deep sense of gratitude to **Dr. Alok Kumar Singh Kushwaha**, Assistant Professor and HOD-Dept. of Computer Science and Engineering, School of studies in engineering and technology, Guru Ghasidas Vishwavidyalaya, Central University, Bilaspur, Chhattisgarh, India for his generous guidance, help and useful suggestions.

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A
Project Report
ON
ML APPROACH FOR DETECTION OF LUNG CANCER
Submitted in partial fulfilment of the requirement for the award of
BACHELOR OF TECHNOLOGY

in
COMPUTER SCIENCE AND ENGINEERING

UNDER THE GUIDANCE OF

MR. VAIBHAV KANT SINGH
(Assistant Professor)

SUBMITTED BY

Priyanka Kumari

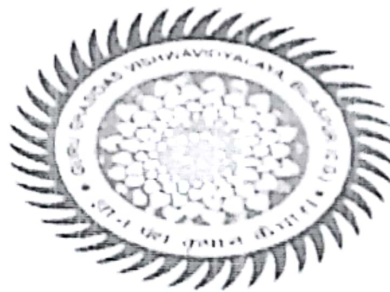
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CERTIFICATE

We here by certify that the work which is being presented in the Bachelor of Technology. Major Project Report entitled "ML APPROACH FOR DETECTION ON LUNG CANCER", in partial fulfilment of the requirements for the award of the **Bachelor of Technology in Computer Science and Engineering** and submitted to the Department of Computer Science and Engineering, School of Studies in Engineering & Technology, Guru Ghasidas Vishwavidyalaya(A Central University), Bilaspur, Chhattisgarh, India is an authentic record of my own work carried out during a period from July 2021 to November 2021 (7th semester) under the supervision of **Mr. Vaibhav Kant Singh, Assistant professor, Department of CSE.** The matter presented in this Project Report has not been submitted by us or by anyone else for the award of any other degree elsewhere.

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Signature of Supervisor

Mr. Vaibhav Kant Singh, Assistant Professor

Date: 22/11/2021

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Head of Department Computer Science & Engineering

DECLARATION

We here by declare that the work presented in this dissertation entitled “ML APPROACH FOR DETECTION OF LUNG CANCER” submitted to the “Department of Computer Science & Engineering, School of Studies in Engineering & Technology, Guru Ghasidas Vishwavidyalaya, Central University, Bilaspur, Chhattisgarh, India” under the guidance of “Mr. Vaibhav Kant Singh” has been done by us, and this dissertation embodies our own work. The work is original as it has not been earlier submitted either in part or full for any purpose before by us or anyone else.

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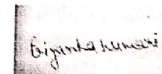
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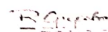
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We are extremely thankful to Professor **T. V. Arjunan**, Dean, School of Studies in Engineering & Technology, Guru Ghasidas Vishwavidyalaya, Central University, Bilaspur, Chhattisgarh, India for providing us infrastructural facilities to work in, without which this work would not have been possible.

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A

Project Report on

DATA CAPTURING SYSTEM-SSR

Submitted in partial fulfilment of the requirement for the award of

BACHELOR OF TECHNOLOGY

in

COMPUTER SCIENCE AND ENGINEERING

UNDER THE GUIDANCE OF:

Mr. AMIT BAGHEL
(Assistant professor)

SUBMITTED BY:

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CERTIFICATE

I hereby certify that the work which is being presented in the B.Tech. Major Project Report entitled **DATA CAPTURING SYSTEM-SSR**, in partial fulfilment of the requirements for the award of the Bachelor of Technology in Computer Science and Engineering and submitted to the Department of Computer Science and Engineering, Institute of Technology, Guru Ghasidas Vishwavidyalaya, Central University, Bilaspur, Chhattisgarh, India is an authentic record of my own work carried out during a period from December 2021 to April 2022 under the supervision of **Mr. AMIT BAGHEL** Assistant Professor CSE Department. The matter presented in this Project Report has not been submitted by me or by anyone else for the award of any other degree elsewhere.

Submitted By:

Vikram Shishupal Singh Bais

Shreyas Kumar Thakur

This is to certify that the above statement made by the student(s) is correct to the best of my knowledge.

Signature of Supervisor
Amit Baghel (Asst.Professor)

Dr. Alok Kumar Singh Kushwaha
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DECLARATION

We hereby declare that the project work entitled **DATA CAPTURING SYSTEM-SSR** submitted to Institute of Technology, Guru Ghasidas Vishwavidyalaya, is a record of an original work done by us under the guidance of **Mr. Amit Baghel**, Assistant Professor Department of Computer Science and Engineering, and this project is submitted in the partial fulfillment of requirements for the award of the degree of Bachelor of Technology in Computer Science and Engineering. The results embodied in this thesis have not been submitted to any other University or Institute for award of any degree or diploma.

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ACKNOWLEDGEMENTS

We would like to place on record my deep sense of gratitude to Mr.Amit Bhagel, Assistant Professor, Dept. of Computer Science and Engineering, Institute of Technology, Guru Ghasidas Vishwavidyalaya, Central University, Bilaspur, Chhattisgarh, India, for his stimulating guidance, continuous encouragement and supervision throughout the course of present work. We express my sincere gratitude to Dr. Alok Kumar Singh Kushwaha, Associate Professor and HOD-Dept.of Computer Science and Engineering, Institute of Technology, Guru Ghasidas Vishwavidyalaya, Central University, Bilaspur, Chhattisgarh, India for his generous guidance, help and useful suggestions. We are extremely thankful to Prof V.D.Rangari , Dean, School of Studies(Engg. & Tech.), Guru Ghasidas Vishwavidyalaya, Central University, Bilaspur, Chhattisgarh, India for providing us infrastructural facilities to work in, without which this work would not have been possible.

Date:29-04-2022

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ABSTRACT

As per the National Assessment and Accreditation Council (NAAC) guidelines every accredited institution should establish its own Internal Quality Assurance Cell (IQAC). This is essential to maintain the post-accreditation quality of the university. Since quality enhancement is a continuous process, the IQAC becomes a part of the institution's system and works towards realization of the goals of quality enhancement and sustenance. The prime task of the IQAC is to develop a system for conscious, consistent and catalytic improvement in the overall performance of institutions. We aim to build an AQAR - IQAC application, a user-friendly web application. The pivotal purpose of this web application is to make the collected data in an easy technical manner and give fast optimized results. Besides, the web application displays all department filled information in a CSV format to the Departments concerned, in an easy-to-read and comprehend manner.