VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

(An Autonomous Institution)

(Accredited by NAAC, Approved by AICTE, Permanently Affiliated to JNTUH)

DEPARTMENT OF INFORMATION TECHNOLOGY

Process to assess individual and team performance

Rubrics stated below are used to grade and categorize the projects according to different levels.

Rubrics of Project Evaluation

S.N0	Criteria	LEVEL (Level : 3 Excellent Level :2 Good Level : 1 Poor)	
1	Oral Communication	3	Student speaks in phase with the given topic confidently using Audiovisual aids. Vocabulary is good
		2	Student speaking without proper planning, fair usage of Audiovisual aids. Vocabulary is not good
		1	Student speaks vaguely not in phase with the given topic. No synchronization among the talk and Visual Aids
2	Writing Skills	3	Proper structuring of the document with relevant subtitles, readability of document is high with correct use of grammar. Work is genuine and not published anywhere else
		2	Information is gathered without continuity of topic, sentences were not framed properly. Few topics are copied from other documents
		1	Information gathered was not relevant to the given task, vague collection of sentences. Content is copied from other documents
3	Content Knowledge	3	Student uses appropriate methods, techniques to model and solve the problem accurately
		2	Student tries to model the problem but fails to solve the problem
		1	Student fails to model the problem and also fails to solve the problem
4	Student Participation	3	Listens carefully to the class and tries to answer questions confidently
		2	Listens carefully to the lecture but doesn't attempt to answer the questions
		1	Student neither listens to the class nor attempts to answer the questions
5	Technical and	3	The program structure is well organized with appropriate use

	analytical Skills		of technologies and methodology. Code is easy to read and well documented. Student is able to implement the algorithm producing accurate results
		2	Program structure is well organized with appropriate use of technologies and Methodology. Code is quite difficult to read and not properly documented. Student is able to implement the algorithm providing accurate results
		1	Program structure is not well organized with mistakes in usage of appropriate Technologies and methodology. Code is difficult to read and student is not able to execute the program
6	Practical Knowledge	3	Independently able to write programs to strengthen the concepts covered in Theory
		2	Independently able to write programs but not able to strengthen the concepts learned in theory
		1	Not able to write programs and not able to strengthen the concepts learned in Theory
7	Understanding of Engineering core	3	Student uses appropriate methods, techniques to model and solve the problem accurately in the context of multidisciplinary projects
		2	Student tries to model the problem but fails to solve the problem in the context of multidisciplinary projects
		1	Student fails to model the problem and also fails to solve the problem in the context of multidisciplinary projects
8	Ethics	3	Student uses appropriate methods, techniques to model and solve the problem accurately in the context of multidisciplinary projects
		2	Student tries to model the problem but fails to solve the problem in the context of multidisciplinary projects
		1	Student fails to model the problem and also fails to solve the problem in the context of multidisciplinary projects

Rubrics for Project

- Project progress seminars are conducted once in every month by the team of their respective guide, a Professor Cadre faculty, an Associate Professor and an Assistant Professor.
- The project seminar should be given by all the project team members.
- Each student in the project team is assessed to their skill set to deliver the seminar, explain the concept and way to make project assess team to understand their work.
- Each individual and team performance is purely based on this project seminar presentation and the viva voice and progress work they show to their guide.

A MAJOR PROJECT REPORT ON

In partial fulfillment of the requirements for the award of the degree of

BACHELOR OF TECHNOLOGY

IN

INFORMATION TECHNOLOGY

Submitted by

Patluri Pallavi	**17911A1241**
Vorsu Swathi	**17911A1257**
Addi Sanjana Reddy	**17911A1201**

Under the Esteemed Guidance of

Mrs. D. Anuradha

Asst. Professor

DEPARTMENT OF INFORMATION TECHNOLOGY

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

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Aziz Nagar Gate, C.B.Post, Chilkur Road, Hyderabad – 500075

2020 - 2021

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Aziz Nagar Gate, C.B.Post, Chilkur Road, Hyderabad - 500075

DEPARTMENT OF INFORMATION TECHNOLOGY

CERTIFICATE

This is to certify that the Project Report on **"AR SIKSHA"** is a bonafide work by **Patluri Pallavi (17911A1241), Addi Sanjana Reddy (17911A1201), and Vorsu Swathi (17911A1257)** in partial fulfillment of the requirement for the award of the degree of Bachelor of Technology in **"INFORMATION TECHNOLOGY"** JNTU Hyderabad during the year **2020 - 2021.**

Project Guide

Mrs. D. Anuradha,
M.Tech,
Asst.Professor.

Head of the department

Mr. B. Srinivasulu,
M.E.,
Professor.

External Examiner

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

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Aziz Nagar Gate, C.B.Post, Chilkur Road, Hyderabad - 500075

2020 - 2021

DECLARATION

We, **Patluri Pallavi(17911A1241), Addi Sanjana Reddy(17911A1201), Vorsu Swathi(17911A1257)** hereby declare that Project Report entitled "**AR SIKSHA**", is submitted in the partial fulfillment of the requirement for the award of **Bachelor of Technology** in Information Technology to **Vidya Jyothi Institute of Technology**, affiliated to JNTU - Hyderabad, is an authentic work and has not been submitted to any other university or institute for the degree.

Patluri Pallavi (17911A1241)

Vorsu Swathi (17911A1257)

Addi Sanjana Reddy (17911A1201)

ABSTRACT

AR SIKSHA

Technology in education change students to learn things very quickly Which leads to an effective process of learning. Augmented reality (AR) has been shown to have good potential in making the learning process more active, effective and meaningful. This is because its advanced technology enables users to interact with virtual and real-time applications and brings the natural experiences to the user. In addition, the merging of AR with education has recently attracted research attention because of its ability to allow students to be immersed in realistic experiences. This offers unique affordances, combining physical and virtual worlds, with continuous and implicit user control of the point of view and interactivity in real life scenarios. The known AR application is snap chat, it uses augmented reality to scan our face and adds filters to our face. AR Siksha similar to above but this application is used in Education. It is used for school students to explore things in detail. It helps in live visual of the concepts which they learn in the school in normal or manual mode. The application has different target images of all the subjects The Camera in our mobile phone helps in combination of real world and imaginary world. It gives the audio or video or direct Wikipedia information regarding the scanned image. These types of applications are the future for everything. They can be build and used in all kind of environment.

A MAJOR PROJECT REPORT ON

"Cascaded DL Classifier for Diagnosis of Covid19 and Pneumonia in X-Ray"

In partial fulfillment of the requirements for the award of the degree of

BACHELOR OF TECHNOLOGY

IN

INFORMATION TECHNOLOGY

Submitted by

P Sowmya Sree

17911A1242

Sushma Guda

16911A1255

Under the Esteemed Guidance of

Dr. M Nagabhushna Rao

Professor

DEPARTMENT OF INFORMATION TECHNOLOGY

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

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2020 - 2021

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Aziz Nagar Gate, C.B.Post, Chilkur Road, Hyderabad - 500075

DEPARTMENT OF INFORMATION TECHNOLOGY

CERTIFICATE

This is to certify that the Project Report on **"Cascaded DL Classifier for Diagnosis of Covid19 and Pneumonia in X-Ray"** is a bonafide work by **P Sowmya Sree (17911A1242), Sushma Guda (16911A1255)** in partial fulfillment of the requirement for the award of the degree of Bachelor of Technology in **"INFORMATION TECHNOLOGY"** JNTU Hyderabad during **the year 2020 - 2021.**

Project Guide

Dr. M Nagabhushana Rao

B.E, M.Tech, PHD.

Professor.

Head of the department

Mr. B. Srinivasulu,

M.E.,

Professor.

External Examiner

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

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Aziz Nagar Gate, C.B.Post, Chilkur Road, Hyderabad - 500075

2020 - 2021

DECLARATION

We, **P. Sowmya sree (17911A1242), Sushma Guda(16911A1255)** hereby declare that Project Report entitled "Cascaded DL Classifier for Diagnosis of Covid19 and Pneumonia in X-Ray", is submitted in the partial fulfillment of the requirement for the award of **Bachelor of Technology** in Information Technology to **Vidya Jyothi Institute of Technology**, affiliated toJNTU - Hyderabad, is an authentic work and has not been submitted to any other university or institute for the degree.

P Sowmya Sree(17911A1242)

Sushma Guda (16911A1255)

Abstract

Computer-aided diagnosis (CAD) systems are considered a powerful tool for physicians to support identification of the novel Corona virus Disease 2019 (COVID-19) using medical imaging modalities. As we know there is rapid growth in COVID cases which is contagious disease which it results in some cases a critical care respiratory condition such as Severe Acute Respiratory Syndrome (SARS- CoV), leading to failure in breathing and the death eventually. However, these RT-PCR tests showed high false-negative levels to confirm positive COVID-19 cases. Alternatively, radiological examinations using chest X-ray and computed tomography (CT) scans are now being used to identify the health status of infected patients including children and pregnant women. In existing system threefold CV and CNN algorithm was used. Existing system doesn't show the affected area and it gives single output without consideration of pneumonia diseases in X-ray images. In this x-ray is uploaded and result is shown positive or negative. In this project we use deep learning algorithms and build H5 model training the system. Using stream lit our web-app is created where person chest X-ray is uploaded. Later, H5 model compares the chest X-ray and datasets, giving the appropriate output with 91% accuracy. Therefore, this project proposes a new framework of cascaded deep learning classifiers to enhance the performance of these CAD systems for highly suspected COVID-19 and pneumonia diseases in X-ray images. Our proposed deep learning framework constitutes two major advancements as follows. First, complicated multi-label classification of X-ray images have been simplified using a series of binary classifiers for each tested case of the health status. Second, We are detecting whether the chest x-ray infected with covid, pneumonia or normal healthy body.

A MAJOR PROJECT REPORT ON

"Detection and Classification of Rice Leaf Diseases Using Multiclass Deep Convolutional Neural Networks"

In partial fulfillment of the requirements for the award of the degree of

BACHELOR OF TECHNOLOGY

IN

INFORMATION TECHNOLOGY

Submitted by

B. Divya	G. Anuhya	K. Himaja
16911A1205	16911A1219	16911A1224

Under the Esteemed Guidance of

Mrs. M.Vijaya Shanthi

Associate Professor

DEPARTMENT OF INFORMATION TECHNOLOGY

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

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Aziz Nagar Gate, C.B.Post, Chilkur Road, Hyderabad – 500075

2019 - 2020

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Aziz Nagar Gate, C.B.Post, Chilkur Road, Hyderabad - 500075

DEPARTMENT OF INFORMATION TECHNOLOGY

CERTIFICATE

This is to certify that the Project Report on **"Detection and Classification Of Rice Leaf Diseases Using Multiclass Deep Convolutional Neural Networks"** is a bonafide work by **B. Divya (16911A1205), G. Anuhya (16911A1219), K. Himaja (16911A1224)** in partial fulfillment of the requirement for the award of the degree of Bachelor of Technology in **"INFORMATION TECHNOLOGY"** JNTU Hyderabad during the year **2019 - 2020.**

Project Guide

Mrs. M. Vijaya Shanthi,
M. Tech (Ph.D),
Associate Professor.

Head of the department

Mr. B. Srinivasulu,
M.E.,
Professor.

External Examiner

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

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Aziz Nagar Gate, C.B.Post, Chilkur Road, Hyderabad - 500075

2019 - 2020

DECLARATION

We, **B. Divya (16911A1205), G. Anuhya (16911A1219), K. Himaja (16911A1224)** hereby declare that Project Report entitled "**Detection and Classification of Rice Leaf Diseases Using Multiclass Deep Convolutional Neural Networks**", is submitted in the partial fulfillment of the requirement for the award of **Bachelor of Technology** in Information Technology to **Vidya Jyothi Institute of Technology**, affiliated to JNTU - Hyderabad, is an authentic work and has not been submitted to any other university or institute for the degree.

B. Divya	**16911A1205**
G. Anuhya	**16911A1219**
K. Himaja	**16911A1224**

ABSTRACT

The major cause for the decrease in the quality and amount of agricultural productivity is Plant diseases. Farmers encounter great difficulties in detecting and controlling Plant diseases. Thus, it is of great importance to diagnose the Plant diseases at early stages so that appropriate and timely action can be taken by the farmers to avoid further losses. Crop diseases are a noteworthy risk to sustenance security, however their quick distinguishing proof stays troublesome in numerous parts of the world because of the nonattendance of the important foundation. Emergence of accurate techniques in the field of Plant-based image classification has shown impressive results.

The proposed system using convolutional neural network to detect and classify the prospective disease into either healthy or unhealthy which can then be further classified into diseases which are most common in Indian rice crop those are, bacterial leaf blight, brown leaf spot and narrow brown leaf spot diseases in a cost effective and efficient way.

Vidya Jyothi Institute of Technology
(Autonomous)
Aziz Nagar, Hyderabad -500075

A Project Report

on

"Driver Drowsiness Monitoring System using Visual Behaviour and Machine Learning"

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

of

BACHELOR OF TECHNOLOGY

IN

INFORMATION TECHNOLOGY

BY

M.Vijay Chand	**(15911A1237)**
K.Manideep	**(15911A1238)**
S.Nikilesh Kumar	**(15911A1250)**

Under the guidance of

Mr.M.Suresh Babu
Asst.Professor

Department of Information Technology
VJIT, Hyderabad.

Department of Information Technology

VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

(Autonomous)
Himayathnagar (vi), C.B.Post, R.R. Dist.500075

CERTIFICATE

This is to certify that the project work entitled "**Driver Drowsiness Monitoring System using Visual Behaviour and Machine Learning**" is a bonafide work carried out by **M.Vijay Chand (15911A1237), K.Manideep (15911A1238) & S.Nikilesh Kumar (15911A1250)** in partial fulfillment of the requirements for the award of degree of **BACHELOR OF TECHNOLOGY IN INFORMATION TECHNOLOGY** to be awarded by the **JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY**, Hyderabad.

The content in this report have not been submitted to any other university or institute for the award of any degree or diploma.

Internal Supervisor
Dept of Information Technology
Hyderabad.

Head of the Department
Dept of Information Technology
Hyderabad.

External Examiner

DECLARATION

This is to certify that the work reported in the present project entitled **"Driver Drowsiness Monitoring System using Visual Behaviour and Machine Learning"** is a record of work done by us in the Department of Information Technology, Vidya Jyothi Institute of Technology (Autonomous), Jawaharlal Nehru Technological University, Hyderabad. The reports are based on the project work done entirely by us and not copied from any other source.

M.Vijay Chand (15911A1237)
K.Manideep (15911A1238)
S.Nikilesh Kumar (15911A1250)

ABSTRACT

Driver Drowsiness Monitoring System using Visual Behavior and Machine Learning

Drowsy driving is one of the major causes of road accidents and death. Hence, detection of driver's fatigue and its indication is an active research area. Most of the conventional methods are either vehicle based, or behavioral based or physiological based. Few methods are intrusive and distract the driver, some require expensive sensors and data handling. Therefore, in this study, a low cost, real time driver's drowsiness detection system is developed with acceptable accuracy. In the developed system, a webcam records the video and driver's face is detected in each frame employing image processing techniques. Facial landmarks on the detected face are pointed and subsequently the eye aspect ratio, mouth opening ratio and nose length ratio are computed and depending on their values, drowsiness is detected based on developed adaptive thresholding. Machine learning algorithms have been implemented as well in an offline manner. A sensitivity of 95.58% and specificity of 100% has been achieved in Support Vector Machine Based classification.

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Aziz Nagar Gate, C.B. Post, Hyderabad-500 075

DEPARTMENT OF INFORMATION TECHNOLOGY

Rubrics to assess Best Projects

Academic Year - 2020-2021

S.No	Roll Number	Name	Project Title	Oral Communication (5)	Writing Skills (5)	Content Knowledge (5)	Student Participation (5)	Technical & analytical Skills (5)	Practical Knowledge (5)	Understanding Engineering Core (5)	Ethics (5)	Total Marks (40)
1	17911A1228	K. Sai Vardhan	Credit Card Data Fraud Detection	5	4.5	4	4.5	5	5	4	4	36
2	17911A1233	M. Anil Kumar										
3	17911A1227	K. Hemanth										
4	17911A1206	B. Tarini	File Transfer and Chat	5	4	4.5	4	4	5	4.5	4	35
5	17911A1258	V. Nandini										
6	17911A1208	D. Pranitha	Auto Pilot Simulation For Efficient Development of Self Driving Cars	3	4	4	5	4	4	4	4	32
7	17911A1218	J S V S Jogendra										
8	17911A1216	G. Kumar Yadav										
9	17911A1242	P. Sowmya Sree	Cascaded DL Classifier for Diagnosis of Covid 19 and Pneumonia in X-Ray	5	5	4	5	5	5	5	4	38
10	16911A1255	Sushma. G										
12	17911A1202	A. Sagar	Weapon Detection	4	4	4.5	4.5	4	4	4	4	33
	17911A1203	A.Venkararamana										
13	17911A1223	Kalyan .G										
14	17911A1241	P. Pallavi	AR SIKSHA	5	5	5	5	5	5	5	4	39
15	17911A1257	V. Swathi										
16	17911A1201	A. Sanjana										

PRC :-

Members:

Dr.S..R. M Krishna G. Indira Priyadarshini M. Suresh Babu

Project Coordinator:

B. Eswar Babu

HOD

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DEPARTMENT OF INFORMATION TECHNOLOGY

Rubrics to assess Best Projects

Academic Year - 2019-2020

S.No	Roll Number	Name	Project Title	Oral Communication (5)	Writing Skills (5)	Content Knowledge (5)	Student Participation (5)	Technical & analytical Skills (5)	Practical Knowledge (5)	Understanding Engineering Core (5)	Ethics (5)	Total Marks (40)
1	16911A1231	M. Sneha	Cartooning of Video	3	3	3.5	4.5	4	4	3	4	29
2	16911A1232	M. Amrit Reddy										
3	16911A1244	P. Sugandhini										
4	16911A1209	D. Aneela	Patient Health Monitoring System	3	3	3	4	3	3	3	4	26
5	16911A1259	Y. Vaishnavi										
6	16911A1245	P. Pravalika	Weather Perception based on Supervised Learning	3	3	3.5	4.5	4	3	3	4	28
7	16911A1216	N. Madhusha										
8	16911A1235	G. Pradeep										
9	16911A1235	M.V.Roshan	Campus Zone – INTERACT	5	5	4	5	5	5	5	4	38
10	16911A1257	V.ShivaKrishna										
11	16911A1212	E. Shiva Kumar										
12	16911A1242	N.RebeccaAiswarya	A Smart Emergency Alert System using Internet of Thing	5	4.5	4	4.5	5	5	4	4	36
13	16911A1250	P.Mounika										
14	16911A1219	G.Anuhya	Detection and Classification of Rice Leaf Diseases Using Multiclass Deep Convolutional Neural Networks	5	4	4	4	4	5	4	4	34
15	16911A1224	K.Himaja										
	16911A1205	B.Divya										
16	16911A1248	P.ShivaTeja	College Enquiry Chat Bot	3	4	3.5	4.5	4	4	4	4	31
17	16911A1213	G.Siddharth										

PRC :-

Members:

Dr.S..R. M Krishna G. Indira Priyadarshini M. Suresh Babu

Project Coordinator:

B. Eswar Babu

HOD

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Aziz Nagar Gate, C.B. Post, Hyderabad-500 075

DEPARTMENT OF INFORMATION TECHNOLOGY

Rubrics to assess Best Projects

Academic Year - 2018-2019

S.No	Roll Number	Name	Project Title	Oral Communication (5)	Writing Skills (5)	Content Knowledge (5)	Student Participation (5)	Technical & analytical Skills (5)	Practical Knowledge (5)	Understanding Engineering Core (5)	Ethics (5)	Total Marks (40)
1	15911A1205	A. Venkat Reddy	Automatic Diagnosis with Efficient Medical Case Searching Based on Graphs	3	3	3	4	4	3	3	3	26
2	15911A1218	G. Akhil Reddy										
3	15911A1227	K.KAravind	Attendance using Face Recognition	5	5	4	5	5	5	5	4	38
4	15911A1249	N.Sai Prasad										
5	15911A1258	V.Alpesh Kumar										
6	15911A1233	K.PrabhuSai	Live Meeting	5	4	4.5	4	4	5	4.5	4	35
7	15911A1247	Ritesh Kumar										
8	15911A1237	M.Vijay Chand	Driver Drowsiness Monitoring System using Virtual Behaviour and Machine Learning	4	4	4.5	4.5	4	4	4	4	33
9	15911A1238	K.Manideep										
10	15911A1250	S.Nikhilesh Kumar										
11	15911A1217	E. Sainath Reddy	Lending Based Line of Credit for Fintech	4	3	3.5	4.5	4	3	3	4	29
12	15911A1210	B. Manisha	Mining Query for Search Engine	3	3	3	4	4	3	3	4	27
13	15911A1255	T. Niharika										
14	15911A1224	J. Nikhil										

PRC :

Members

Dr.S.V.Naga Sreenivasu G. Indira Priyadarshini M. Suresh Babu

Project Coordinator:

M. Vijaya Shanthi

Dr. Siddharth Ghosh

HOD