SAPTHAGIRI COLLEGE OF ENGINEERING

#14/5, Chikkasandra, Hesaraghatta Main Road, Bangalore-57
(Affiliated to VTU, Belgavi & Approved by AICTE-New Delhi)
(ISO 9001:2015 & ISO 14001:2015 certified Institution Accredited by NACC with "A" Grade)

Department of Information Science & Engineering

Academic Year : 2020-21

Subject : Project Work Phase I/II   **Subject Code :** 17ISP78/85

Consolidated List of Final Year Projects

SL. NO.	USN	NAME OF THE STUDENT	PROJECT TITLE
1	1SG17IS007	Akshay Kumar	Fire And Gas Accident Avoider System
	1SG17IS009	Aman Chadha	
	1SG17IS017	Ayush Raj	
	1SG17IS043	Kirti Jagnani	
2	1SG17IS003	Aditya N	Real Time Face Mask Detector Using Deep Learning
	1SG17IS008	Akshay P	
	1SG17IS012	Arpita Prakash Paramaj	
	1SG17IS027	Deepak K	
3	1SG17IS034	Harshitha S	Gesture Recognition Based Virtual Mouse and Keyboard
	1SG17IS049	Manjunath K	
	1SG17IS052	Meghana S M	
	1SG16IS061	Nishchitha C	
4	1SG17IS015	Ashritha M	IOT Based Air and Sound pollution monitoring system
	1SG17IS019	Bharati G R	
	1SG17IS020	Biradar Swati	
5	1SG17IS002	Abhilash P	Human Activity Recognition
	1SG17IS010	Anil Kumar R	
	1SG17IS038	Janardan H V	
	1SG17IS042	Keerthan Sai G	
6	1SG17IS004	Aishwarya A	Intelligent and Innovative Shopping Cart for Smart Cities Using IOT
	1SG17IS026	Chethana R	
	1SG17IS029	Dhatri S A	
	1SG17IS045	Kushal S	
7	1SG17IS013	Arpita Saxena	Web Vulnerability Detection: The Case of Cross-Site Request Forgery
	1SG17IS035	Himanshu M Singh	
	1SG17IS066	Pratik	
	1SG16IS114	Thrupthi TS	
7	1SG17IS001	A T Shweta	Smart Water Quality Monitoring System Using IOT
	1SG17IS028	Deepthi N	
	1SG17IS030	Divya J	
	1SG17IS031	Esther J	

8	1SG17IS041	Kavya H M	Traffic Sign Detection and Recognition System Using Machine Learning
	1SG17IS011	Arpita Bhandari	
	1SG17IS022	Chandana T H	
	1SG17IS025	Chethana J	
9	1SG16IS063	Patel Saumil	A Novel Method of Covid-19 Detection Using Deep Neural Networks
	1SG16IS032	K.S Varun	
	1SG17IS006	Akshay Hegde	
	1SG17IS033	Harshitha NS	
10	1SG17IS021	Chandan Kumar R	Skin Cancer Detection Using Machine Learning
	1SG17IS024	Chethan B Raj	
	1SG17IS039	Jayashankar M	
	1SG17IS048	Manish K S	
11	1SG17IS040	Karthik K	Hand Written Equation Solver Using CNN
	1SG17IS046	Lakshmi Prashant	
	1SG17IS050	Manoj A	
	1SG17IS055	Nischith M K	
12	1SG17ISO53	Mohamed Faraz	Preterm Birth Risk Detection System
	1SG17IS072	R Charan	
	1SG17IS092	Shoaib Ahmed K	
13	1SG17IS016	Ashutosh	Dementia Patient Fall Detection and Location Tracker
	1SG17IS099	Sonali Gupta	
	1SG17IS093	Shraeya Kulkarni	
	1SG17IS107	Yash Roy	
14	1SG17IS056	Nisha Narayan Hegde	Human Age And Gender Detection Convolutional Neural Network
	1SG17IS082	Sahana E K	
	1SG17IS096	Shrunga K S	
	1SG17IS104	Vaishnavi P	
15	1SG17IS057	Nishant Bana	Monitoring And Controlling Air Pollution To Prevent The Spread Of Covid-19
	1SG17IS068	Priyanka KV	
	1SG17IS069	Priyanka Singh	
	1SG17IS078	Rohan Singh	
16	1SG17IS080	Sachin G Holalkeri	Autonomous Car Simulation Using CARLA
	1SG17IS094	Shreevadan K	
	1SG17IS095	Shreyas S M	
17	1SG17IS084	Sahana. R	Cricket Game Predicting Analytics Using Machine Learning Algorithms
	1SG17IS077	Rashmi Prabhu	
	1SG17IS088	Sangeetha.S	
18	1SG17ISO51	Manoj G	Accident Detection And Safety Monitoring System Using Raspberry PI
	1SG17IS075	Ranjitha L	
	1SG17IS098	Somya Kumari	
	1SG17IS101	Sukanya Rani	

19	1SG17IS109	Karthik M	Stock Market Prediction Using Machine Learning
	1SG17IS091	Shashank S	
	1SG17IS105	Veeresh Kumar P	
	1SG17IS102	Sunil Rathor	
20	1SG17IS079	Saaqeba Sabha R	Indoor Intrusion Detection And Filtering System Using Raspberry PI
	1SG17IS083	Sahana H S	
	1SG17IS085	Samatha S	
	1SG17IS090	Shailashree K R	
21	1SG17IS061	Prajna B Kharvi	Predicting Deep Solar Power System Coverage
	1SG17IS087	Sangeetha K V	
	1SG17IS097	Sneha R	
22	1SG17IS059	P Arahanth Jain	Computer Vision And ML Based Unobtrusive Classroom Attendance
	1SG17IS071	Purshotham M	
	1SG17IS081	Sachin N	
	1SG17IS089	Satish Kumar S	
23	1SG16IS071	Prathibha. R	Prediction And Forecast For Covid-19 Outbreak In India Based On Enhanced Epidemiological Models
	1SG16IS125	Vivek.MC	
	1SG16IS099	Shashi Kumar	
24	1SG16IS007	Amith S Hegde	Touchless Human Computer Interaction For Kiosk Devices
	1SG17IS062	Prajwal J	
	1SG17IS065	Prakruthi K	
	1SG17IS108	Roshan B	
25	1SG16IS057	Nidhi Suresh Tadas	Blind Assistance System Using CNN
	1SG17IS100	Sowmya B K	
	1SG16IS117	Vaishnavi Nadgir	
	1SG17IS106	Vidya D	
26	1SG17IS084	Sahana. R	Prediction And Forecast For COVID-19 Outbreak In India Based On Enhanced Epidemiological Model
	1SG16IS071	Prathibha. R	
	1SG16IS125	Vivek M C	
	1SG16IS099	Shashi Kumar	

Project Coordinator

HOD

SAPTHAGIRI COLLEGE OF ENGINEERING

14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru-560057

[AFFILIATED TO VIVSVESWARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI]

SAPTHAGIRI
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Department of Information Science & Engineering

CERTIFICATE

Certified that the Project work entitled **FIRE AND GAS ACCIDENT AVOIDER SYSTEM** carried out by **Mr. AKSHAY KUMAR (1SG17IS007), Mr. AMAN CHADHA (1SG17IS009), Mr. AYUSH RAJ (1SG17IS017)** and **Miss. KIRTI JAGNANI (1SG17IS043)** bonafide students of 8th semester, department of **Information Science & Engineering** carried out at our college **Sapthagiri College of Engineering**, Bengaluru in partial fulfillment of the award of **Bachelor of Engineering** in **Information Science & Engineering** of the **Visvesvaraya Technological University**, Belagavi during the year 2020-21. It is certified that all corrections/suggestions indicated for final Assessment have been incorporated in the Report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the said Degree.

Signature of the Guide
Dr H R Ranganatha
HOD, I.S.E., S.C.E.

Signature of the HOD
Dr H R Ranganatha
HOD, I.S.E., S.C.E.

Signature of the Principal
Dr H Ramkrishna
S.C.E., Bengaluru

Name of the Examiner

1. H R LANGANATH

2. Sudarsanan. D

Signature of the Examiner with date

1. H R Rout
9/8/21

2. 9/8/21

Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road
Bengaluru - 560 057

SAPTHAGIRI COLLEGE OF ENGINEERING
14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru-560057

[AFFILIATED TO VIVSVESWARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI]

SAPTHAGIRI
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Department of Information Science & Engineering

CERTIFICATE

Certified that the Project work entitled **REAL TIME FACE MASK DETECTION USING DEEP LEARNING** carried out by **ADITYA N (1SG17IS003), AKSHAY P (1SG17IS008), ARPITA PRAKASH PARAMAJ (1SG17IS012) , DEEPAK K (1SG17IS027)** bonafide students of 8th semester, department of **Information Science & Engineering** carried out at our college **Sapthagiri College of Engineering**, Bengaluru in partial fulfillment of the award of **Bachelor of Engineering** in **Information Science & Engineering** of the **Visvesvaraya Technological University**, Belagavi during the year 2020-21. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the said Degree.

Signature of the Guide
Dr Asha P N
Associate Professor

Signature of the HOD
Dr H R Ranganatha
HOD, I.S.E., S.C.E.

Signature of the Principal
Dr H Ramakrishna
S.C.E., Bengaluru
Principal
Sapthagiri College of Engineering
Chikkasandra, Hesaraghatta Road,
Bangalore-560 057

Name of the Examiner

Signature of the Examiner with date

1. H R RANGANATHA

Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road
Bengaluru - 560 057

2. Sudarsanan- D

H R RAM .9/3/21

SAPTHAGIRI COLLEGE OF ENGINEERING
14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru-560057

[AFFILIATED TO VIVSVESWARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI]

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CERTIFICATE

Certified that the Project work entitled **GESTURE RECONITION BASED VIRTUAL MOUSE AND KEYBOARD** carried out by **HARSHITHA S (1SG17IS034), MANJUNATH K(1SG17IS049), MEGHANA S M(1SG17IS052)** and **NISHCHITHA C (1SG16IS061)** bonafide students of 8th semester, department of **Information Science & Engineering** carried out at our college **Sapthagiri College of Engineering**, Bengaluru in partial fulfillment of the award of **Bachelor of Engineering** in **Information Science & Engineering** of the **Visvesvaraya Technological University,** Belagavi during the year 2020-21. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the said degree.

Signature of the Guide
Dr Asha P N
Associate Professor

Signature of the HOD
Dr H R Ranganatha
HOD, I.S.E., S.C.E.

Signature of the Principal
Dr H Ramkrishna
S.C.E., Bengaluru

Name of the Examiner

1. H R Ranganad

2. Sudarsanan.

Signature of the Examiner with date

1. H R Ranou 71 6 21

Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road,
Bengaluru - 560 057 9|8|21

SAPTHAGIRI COLLEGE OF ENGINEERING
14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru-560057

[AFFILIATED TO VIVSVESWARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI]

SAPTHAGIRI
College of Engineering

Department of Information Science & Engineering

CERTIFICATE

Certified that the Project work entitled **IoT BASED AIR POLLUTION AND SOUND POLLUTION MONITORING SYSTEM** carried out by **Ashritha M (1SG17IS015), Bharathi (1SG17IS018), Biradar Swati (1SG17IS020)** bonafide students of 8th semester, Department of Information Science & Engineering carried out at our college **Sapthagiri College of Engineering**, Bengaluru in partial fulfillment of theaward of **Bachelor of Engineering** in **Information Science & Engineering** of the **Visvesvaraya Technological University**, Belagavi during the year 2020-21. It is certified that all corrections/suggestions indicated for Final Assessment have been incorporated in the Report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the said Degree.

Signature of the Guide	**Signature of the HOD**	**Signature of the Principal**
Prof. Sudarsanan D	Dr. H.R. Ranganatha	Dr. H Ramakrishna
Assistant Professor	Professor & Head	Principal

Examiner

Name of the Examiner	Signature of the Examiner with date
1. H.R.RANGANATH	1. H.R.ROW 9/8/21
2. Sudarsanan D	2. 9/8/21

Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road
Bengaluru - 560 057

SAPTHAGIRI COLLEGE OF ENGINEERING

14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru-560057

[AFFILIATED TO VIVSVESWARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI]

SAPTHAGIRI
College of Engineering

Department of Information Science & Engineering

CERTIFICATE

Certified that the Project work entitled **HUMAN ACTIVITY RECOGNITION** carried out by **ABHILASH P(1SG17IS002), ANIL KUMAR R(1SG17IS010), JANARDAN H V(1SG17IS038), KEERTHAN SAI G(1SG17IS042))** bonafide students of 8ᵗʰ semester, Department of Information Science & Engineering carried out at our college **Sapthagiri College of Engineering**, Bengaluru in partial fulfillment of the award of **Bachelor of Engineering** in **Information Science & Engineering** of the **Visvesvaraya Technological University**, Belagavi during the year 2020-21. It is certified that all corrections/suggestions indicated for Final Assessment have been incorporated in the Report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the said Degree.

Signature of the Guide
Prof. Ramya R
Assistant Professor

Signature of the HOD
Dr. H.R. Ranganatha
Professor & Head

Signature of the Principal
Dr. H Ramakrishna
Principal

Examiner

Name of the Examiner

Signature of the Examiner with date

1. ...H.R. RANGANATH...

1. ...H.R.Rou...
9/8/21

2. Sudarsana l

2. ...

Principal
Sapthagiri College of Engineering   9/8/21
14/5, Chikkasandra, Hesaraghatta Main Road
Bengaluru - 560 057

SAPTHAGIRI COLLEGE OF ENGINEERING
14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru-560057

[AFFILIATED TO VIVSVESWARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI]

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Department of Information Science & Engineering

CERTIFICATE

Certified that the Project work entitled **INTELLIGENT AND INNOVATIVE SHOPPING CART FOR SMART CITIES USING IOT** carried out by **AISHWARYA A (1SG17IS004), CHETHANA R (1SG17IS026), DHATRI S A (1SG17IS029)** and **KUSHAL S (1SG17IS045)** bonafide students of 7th semester, department of **Information Science & Engineering** carried out at our college **Sapthagiri College of Engineering**, Bengaluru in partial fulfillment of the award of **Bachelor of Engineering** in **Information Science & Engineering** of the **Visvesvaraya Technological University**, Belagavi during the year 2020-21. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the said Degree.

Signature of the Guide
Prof. Gayathri R
Assistant Professor

Signature of the HOD
Dr H R Ranganatha
HOD, I.S.E., S.C.E.

Signature of the Principal
Dr H Ramakrishna
S.C.E., Bengaluru

Name of the Examiner

Signature of the Examiner with date

1. A R RANGANATH

2. Sudarsanour

Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road
Bengaluru - 560 057

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SAPTHAGIRI COLLEGE OF ENGINEERING

14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru-560057

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CERTIFICATE

Certified that the Project work entitled **WEB VULNERABILITY DETECTION: THE CASE OF CROSS-SITE REQUEST FORGERY** carried out by **ARPITA SAXENA (1SG17IS013), HIMANSHU M SINGH (1SG17IS035), PRATIK (1SG17IS066) and THRUPTHI T S (1SG16IS114)** bonafide students of 8th semester, department of Information Science & Engineering carried out at our college **Sapthagiri College of Engineering**, Bengaluru in partial fulfillment of the award of **Bachelor of Engineering** in **Information Science & Engineering** of the **Visvesvaraya Technological University**, Belagavi during the year 2020-21. It is certified that all corrections/suggestions indicated for Final Assessment have been incorporated in the Report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the said Degree.

Signature of the Guide
Prof. Lakshmi Vishwanath
Assistant Professor

Signature of the HOD
Dr H R Ranganatha
HOD,I.S.E.,S.C.E.

Signature of the Principal
Dr H Ramakrishna
S.C.E., Bengaluru

Examiner

Name of the Examiner

Signature of the Examiner with date

1. H. R. RANGANATH

1. H R ROW
9|8|21

2. Sudarsanam

Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road
Bengaluru - 560 057

9|8|21

SAPTHAGIRI COLLEGE OF ENGINEERING

14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru-560057

[AFFILIATED TO VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI
& APPROVED BY AICTE, NEW DELHI]
Accredited by NAAC with "A" grade
ISO 9001-2015and14001-2015 Certified Institute

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Department of Information Science & Engineering

CERTIFICATE

Certified that the Project work entitled **"SMART WATER QUALITY MONITORING SYSTEM USING IoT"** carried out by **A T SHWETA (1SG17IS001), DEEPTHI N PRASAD (1SG17IS028), DIVYA J (1SG17IS030) and ESTHER J (1SG17IS031)** bonafide students of 8th semester, Department of Information Science & Engineering carried out at our college **Sapthagiri College of Engineering**, Bengaluru in partial fulfillment of the award of **Bachelor of Engineering** in **Information Science & Engineering** of the **Visvesvaraya Technological University,** Belagavi during the year 2020-21. It is certified that all corrections/suggestions indicated for Final Assessment have been incorporated in the Report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the said Degree.

Signature of the Guide
Prof. Sowmya Somanath
Assistant Professor

Signature of the HOD
Dr. H R Ranganatha
HOD, I.S.E., S.C.E.

Signature of the Principal
Dr. H Ramakrishna
S.C.E., Bengaluru

Name of the Examiner

1. ....H R RANGANATH....

2. ....Sudarasana....

Signature of the Examiner with date

1. ....H R Row....
9|8|21

Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road,
Bengaluru - 560 057

9|8|21

SAPTHAGIRI COLLEGE OF ENGINEERING
14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru-560057

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Department of Information Science & Engineering

CERTIFICATE

Certified that the project work entitled **"Traffic sign detection and recognition system using Machine Learning"** carried out by **Kavya H M 1SG17IS041, Arpita Bhandari 1SG17IS011, Chandana T H 1SG17IS022, Chethana J 1SG17IS025** bonafide students of 8th semester, department of **Information Science & Engineering** carried out at our college **Sapthagiri College of Engineering**, Bengaluru in partial fulfillment of the award of **Bachelor of Engineering** in **InformationScience & Engineering** of the **Visvesvaraya Technological University**, Belagavi during the year 2020-21. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the said Degree.
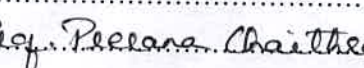
Signature of the Guide
Prof. Praneetha
Assistant Professor

Signature of the HOD
Dr H R Ranganatha
HOD, I.S.E., S.C.E.

Signature of the Principal
Dr H Ramkrishna.
S.C.E., Bengaluru.

External Viva

Name of the Examiners

1. ...H R Ranganath...

2. ...Sudarsanan D......

Signature of the Examiners with date

1. ...Haran... 5|c|21

2. ...Anf... 9|8|21

Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road
Bengaluru - 560 057

SAPTHAGIRI COLLEGE OF ENGINEERING
14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru-560057

[AFFILIATED TO VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI]

SAPTHAGIRI
College of Engineering

Department of Information Science & Engineering

CERTIFICATE

Certified that the project work entitled **"NOVEL METHOD OF COVID-19 DETECTION USING DEEP NEURAL NETWORKS** carried out by **SAUMIL PATEL (1SG16IS063), VARUN KS (1SG16IS032), AKSHAY HEGDE (1SG17IS006), HARSHITHA NS (1SG17IS033)**, bonafide students of 8th semester, Department of **Information Science & Engineering, Sapthagiri College of Engineering, Bengaluru** in partial fulfillment for the award of **Bachelor of Engineering in Information Science & Engineering** by **Visvesvaraya Technological University**, Belagavi during the year 2020-21. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The Internship report has been approved as it satisfies the academic requirements in respect of Internship work prescribed for the aid Degree.

Prof. Veena Dhavalgi
Signature of the Guide
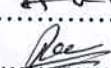
Dr. H R Ranganatha
Signature of the HOD

Dr. H Ramakrishna

Signature of the Principal

External Viva

Name of the Examiners

1. ...H R RANGANATH...

2. Prof. Prerana Chaithra

Signature of the Examiners with date

1. ...H R Rao...

2. ...Pre... 10/9/21
10/8/21

Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road
Bengaluru - 560 057

SAPTHAGIRI COLLEGE OF ENGINEERING

14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru-560057

[AFFILIATED TO VIVSVESWARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI]

SAPTHAGIRI
College of Engineering

Department of Information Science & Engineering

CERTIFICATE

Certified that the Project work entitled **SKIN CANCER DETECTION USING MACHINE LEARNING** carried out by **Chandan Kumar R (1SG17IS021), Chethan B Raj (1SG17IS024), Jayashankar M (1SG17IS039), Manish K S (1SG17IS048)** bonafide students of 8th semester, Department of Information Science & Engineering carried out at our college **Sapthagiri College of Engineering**, Bengaluru in partial fulfillment of the award of **Bachelor of Engineering** in **Information Science & Engineering** of the **Visvesvaraya Technological University**, Belagavi during the year 2020-21. It is certified that all corrections/suggestions indicated for Final Assessment have been incorporated in the Report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the said Degree.

Signature of the Guide	**Signature of the HOD**	**Signature of the Principal**
Prof. Prerana Chaithra	Dr. H.R. Ranganatha	Dr. H Ramakrishna
Associate Professor	Professor & Head	Principal

Examiner

Name of the Examiner   **Signature of the Examiner with date**

1. .....H.R.RANGANATH.........   1. .... 10|8|21

2. Prof. Prerana Chaithra   Principal2. .... 9/8/21

Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road
Bengaluru - 560 057

SAPTHAGIRI COLLEGE OF ENGINEERING
14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru-560057

[AFFILIATED TO VIVSVESWARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI]

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Department of Information Science & Engineering

CERTIFICATE

Certified that the project work entitled **" Hand written equation solver using CNN"** carried out by **Karthik K (1SG17IS070), Lakshmi Prashant (1SG17IS046), Manoj A (1SG17IS050), Nischith M K (1SG17IS055)** bonafide students of 8th semester, department of **Information Science & Engineering** carried out at our college **Sapthagiri College of Engineering**, Bengaluru in partial fulfillment of the award of **Bachelor of Engineering** in **Information Science & Engineering** of the **Visvesvaraya Technological University**, Belagavi during the year 2020-21. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the said Degree.

Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road
Bengaluru - 560 057

Signature of the Guide
Prof.Chaithra.BM
Assistant Professor

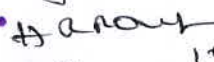**Signature of the HOD**
Dr H R Ranganatha
HOD, I.S.E., S.C.E.

Signature of the Principal
Dr H Ramkrishna
S.C.E., Bengaluru

External Viva

Name of the Examiners

1. H R RANGANATH

2. Prof. Prerana Chaithra

Signature of the Examiners with date

1. H R Rao

2. Ree   10/9/21

10/8/21

SAPTHAGIRI COLLEGE OF ENGINEERING
14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru-560057

[AFFILIATED TO VIVSVESWARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI]

Department of Information Science & Engineering

CERTIFICATE

Certified that the Project work entitled **PRETERM BIRTH RISK DETECTION SYSTEM** carried out by Mr.<MOHAMMED FHARAZ TAUFEEQ> (1SG17IS053), Mr.<R CHARAN>(1SG17IS072),Mr.<SHOAIB AHMED k>(1SG17IS091) bonafide students of 8th semester, department of **Information Science & Engineering** carried out at our college **Sapthagiri College of Engineering**, Bengaluru in partial fulfillment of the award of **Bachelor of Engineering** in **Information Science & Engineering** of the **Visvesvaraya Technological University**, Belagavi during the year 2020-21. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the said Degree.

Signature of the Guide	**Signature of the HOD**	**Signature of the Principal**
Prof.Chaithra.BM	Dr H R Ranganatha	Dr H Ramkrishna
Assistant Professor	HOD, I.S.E., S.C.E.	S.C.E., Bengaluru

Name of the Examiner   Signature of the Examiner with date

1. HRRANGANATH   T. HARAOY 10|8|21

2. Prof. Preerana Chaithra

Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road
Bengaluru - 560 057

SAPTHAGIRI COLLEGE OF ENGINEERING

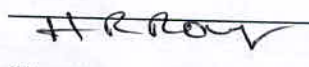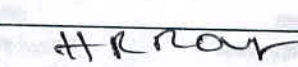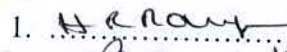## 14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru-560057

[AFFILIATED TO VIVSVESWARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI]

SAPTHAGIRI
College of Engineering
Creating Tomorrow

Department of Information Science & Engineering

CERTIFICATE

Certified that the project work entitled " **DEMENTIA PATIENT FALL DETECTION AND LOCATION TRACKER**" carried out by **Ashutosh 1SG17IS016, Sonali Gupta 1SG17IS099, Shraeya Kulkarni 1SG17IS093, Yash Roy 1SG17IS107** bonafide students of 8th semester, department of **Information Science & Engineering** carried out at our college **Sapthagiri College of Engineering**, Bengaluru in partial fulfillment of the award of **Bachelor of Engineering** in **Information Science & Engineering** of the **Visvesvaraya Technological University**, Belagavi duringthe year 2020-21. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the said Degree.

Signature of the Guide
Dr H R Ranganatha
HOD, I.S.E., S.C.E.

Signature of the HOD
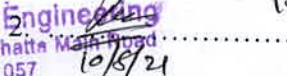Dr H R Ranganatha
HOD, I.S.E., S.C.E.

Signature of the Principal
Dr H Ramkrishna.
S.C.E., Bengaluru.

External Viva

Name of the Examiners

1. H.G. RANGAPATH

2. Prof. Preeana Chaithea

Signature of the Examiners with date

1. H R Ray 10/8/21

2. .... 10/8/21

Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road
Bengaluru - 560 057

SAPTHAGIRI COLLEGE OF ENGINEERING

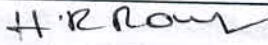14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru-560057

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SAPTHAGIRI
College of Engineering

Department of Information Science & Engineering

CERTIFICATE

Certified that the Project work entitled **HUMAN AGE AND GENDER DETECTION USING CONVOLUTIONAL NEURAL NETWORK** carried out by **Nisha Narayan Hegde (1SG15IS056), Sahana E K (1SG15IS082), Shrunga K S(1SG15IS096), Vaishnavi P(1SG15IS104)** bonafide students of 8th semester, Department of Information Science & Engineering carried out at our college **Sapthagiri College of Engineering**, Bengaluru in partial fulfillment of the award of **Bachelor of Engineering in Information Science & Engineering of the Visvesvaraya Technological University, Belagavi** during the year 2020-2021. It is certified that all corrections/suggestions indicated for Final Assessment have been incorporated in the Report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the said Degree.

Signature of the Guide	**Signature of the HOD**	**Signature of the Principal**
Prof. Prerana Chaithra	Dr. H.R. Ranganatha	Dr. H Ramakrishna
Associate Professor	Professor & Head	Principal

Examiner

Name of the Examiner   **Signature of the Examiner with date**

1. H R RAGHANATH   1. A R Raw   11/8/21

Principal
Sapthagiri College of Engineering
14/5 Chikkasandra, Hesaraghatta Main Road
Bengaluru - 560 257

2. Prof. Prerana Chaithra   11/8/21

SAPTHAGIRI COLLEGE OF ENGINEERING
14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru-560057

[AFFILIATED TO VIVSVESWARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI]

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College of Engineering
Creating Tomorrow

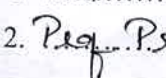## Department of Information Science & Engineering

CERTIFICATE

Certified that the project work entitled **"MONITORING AND CONTROLLING AIR POLLUTION TO PREVENT THE SPREAD OF COVID-19"** carried out by **NISHANT BANA (1SG17IS057), PRIYANKA KV (1SG17IS068), PRIYANKA SINGH (1SG17IS069), ROHAN SINGH (1SG17IS078)** bonafide students of 8th semester, department of **Information Science & Engineering** carried out at our college **Sapthagiri College of Engineering**, Bengaluru in partial fulfillment of the award of **Bachelor of Engineering** in **InformationScience & Engineering** of the **Visvesvaraya Technological University,** Belagavi during the year 2020-21. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the said Degree.
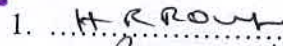
Signature of the Guide
Prof. Prerana Chaithra.
Associate Professor

Signature of the HOD
Dr H R Ranganatha
HOD, I.S.E., S.C.E.

Signature of the Principal
Dr H Ramkrishna.
S.C.E., Bengaluru.

External Viva

Name of the Examiners

Signature of the Examiners with date

1. ...H.R.RANGANATHA....   1. ...H R Rou....... 11\8\21

2. Prof. Prerana Chaithra   2. ....11/8/21

Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road,
Bengaluru - 560 057

SAPTHAGIRI
College of Engineering
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Department of Information Science & Engineering

CERTIFICATE

Certified that the project work entitled **"AUTONOMOUS CAR SIMULATION USING CARLA"** carried out by **Sachin G Holalkeri (1SG17IS080), Shreevadan K (1SG17IS094), Shreyas S M (1SG17IS095** bonafide students of 8th semester, department of **Information Science & Engineering** carried out at our college **Sapthagiri College of Engineering**, Bengaluru in partial fulfillment of the award of **Bachelor of Engineering in InformationScience & Engineering** of the **Visvesvaraya Technological University,** Belagavi during the year 2020-21. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the said Degree.

Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road
Bengaluru- 560 057

Prof. Sudarsanan D	Dr. H.R. Ranganatha	Dr. H Ramkrishna
Assistant Professor		
Signature of the Guide	**Signature of the HOD**	**Signature of the Principal**

External Viva

Name of the Examiners

1. H R RANGANATH

2. Prof. Preeana Chaithra

Signature of the Examiners with date

1. H R rani

2. 10/8/21

SAPTHAGIRI COLLEGE OF ENGINEERING
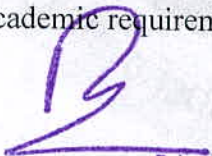## 14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru-560057

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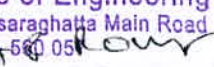
Department of Information Science & Engineering

CERTIFICATE

Certified that the project work entitled **"CRICKET GAME PREDICTIVE ANALYTICS USING MACHINE LEARNING ALGORITHMS"** carried out by <u>Sahana R (1SG17IS084), Rashmi Prabhu (1SG17IS077), Sangeetha S (1SG17IS088)</u> bonafide students of 8th semester, department of **Information Science & Engineering** carried out at our college **Sapthagiri College of Engineering**, Bengaluru in partial fulfillment of the award of **Bachelor of Engineering** in **Information Science & Engineering** of the **Visvesvaraya Technological University,** Belagavi during the year 2020-21. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the said Degree.

Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road
Bengaluru - 560 056

Signature of the Guide
Prof. Ramya R
Assistant Professor

Signature of the HOD
Dr H R Ranganatha
HOD, I.S.E., S.C.E.

Signature of the Principal
Dr H Ramkrishna
S.C.E., Bengaluru

External Viva

Name of the Examiners

1. H R RANGANATH

2. Prof. Prerana Chaithra

Signature of the Examiners with date

1. H R Rao

2. 10/8/21

SAPTHAGIRI
College of Engineering
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Department of Information Science & Engineering

CERTIFICATE

Certified that the project work entitled **"ACCIDENT DETECTION AND SAFETY MONITORING SYSTEM USING RASPBERRY PI"** carried out by **MANOJ G 1SG17IS051, RANJITHA L. 1SG17IS075, SOMYA KUMARI 1SG17IS098, SUKANYA RANI 1SG17IS101** bonafide students of 8th semester, department of **Information Science & Engineering** carried out at our college **Sapthagiri College of Engineering**, Bengaluru in partial fulfillment of the award of **Bachelor of Engineering** in **Information Science & Engineering** of the **Visvesvaraya Technological University, Belagavi** duringthe year 2020-21. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the said Degree.

Signature of the Guide
Prof. Gayathri R
Assistant Professor

Signature of the HOD
Dr H R Ranganatha
HOD, I.S.E., S.C.E.

Signature of the Principal
Dr H Ramkrishna.
S.C.E., Bengaluru.

External Viva

Name of the Examiners

1. ..H R KAPHACATH......
2. Reg. Preeana...Chaithra...

Signature of the Examiners with date

1. .....H R RO......
2. ....Dec.... 11/8/21

Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road
Bengaluru - 560 057

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14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru-560057

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SAPTHAGIRI
College of Engineering

Department of Information Science & Engineering

CERTIFICATE

Certified that the Project work entitled **STOCK MARKET PREDICTION USING MACHINE LEARNING** carried out by **Karthik M (1SG17IS109), Shashank S (1SG17IS091),Veeresh Kumar P (1SG17IS105), Sunil Rathor (1SG17IS102)** bonafide students of 8th semester, Department of Information Science & Engineering carried out at our college **Sapthagiri College of Engineering**, Bengaluru in partial fulfillment of the award of **Bachelor of Engineering** in **Information Science & Engineering** of the **Visvesvaraya Technological University,** Belagavi during the year 2020-21. It is certified that all corrections/suggestions indicated for Final Assessment have been incorporated in the Report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the said Degree.

Signature of the Guide	**Signature of the HOD**	**Signature of the Principal**
Prof. Lakshmi V	Dr. H.R. Ranganatha	Dr. H Ramakrishna
Assistant Professor	Professor & Head	Principal

Examiner

Name of the Examiner	Signature of the Examiner with date
1. Prof. Preeana Chaithea	1. ....11/8/21..........
2. Dr Asha P. N	2. ....11/8/21..........

Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road
Bengaluru - 560 057

SAPTHAGIRI COLLEGE OF ENGINEERING
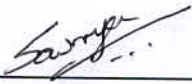## 14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru-560057

[AFFILIATED TO VIVSVESWARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI]

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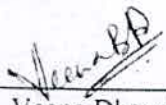College of Engineering
Creating Tomorrow

Department of Information Science & Engineering

CERTIFICATE

Certified that the project work entitled **INDOOR INTRUSION DETECTION AND FILTERING SYSTEM USING RASPBERRY PI** carried out by **Ms. SAAQEBA SABHA R (1SG17IS079), Ms. SAHANA H S (1SG17IS083), Ms. SAMATHA S (1SG17IS085) and Ms. SHAILASHREE K R (1SG17IS090)** bonafide students of 8th semester, department of **Information Science & Engineering** carried out at our college **Sapthagiri College of Engineering**, Bengaluru in partial fulfillment of the award of **Bachelor of Engineering** in **Information Science & Engineering** of the **Visvesvaraya Technological University**, Belagavi during the year 2019-20. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the said Degree.

Signature of the Guide
Prof. SowmyaSomanath
AssistantProfessor

Signature of theHOD
Dr H R Ranganatha
HOD, I.S.E., S.C.E.

Signature of the Principal
Dr H Ramkrishna
S.C.E., Bengaluru.

External Viva

Name of the Examiners

Signature of the Examiners with date

1. Prof. Peelana Chaithee

2. Dr. Asha P.N.

Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road,
Bengaluru - 560 057

SAPTHAGIRI
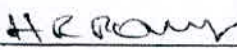**College of Engineering**
Creating Tomorrow

Department of Information Science & Engineering

CERTIFICATE

Certified that the project work entitled **"Predicting Deep Solar Power System Coverage"** carried out by **Prajna B Kharvi (1SG17IS061), Sangeetha K V (1SG17IS087), Sneha R (1SG17IS097)** bonafide students of 8th semester, department of **Information Science & Engineering** carried out at our college **Sapthagiri College of Engineering**, Bengaluru in partial fulfillment of the award of **Bachelor of Engineering** in **Information Science & Engineering** of the **Visvesvaraya Technological University,** Belagavi during the year 2020-21. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Project work prescribed for thesaid Degree.

Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road
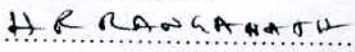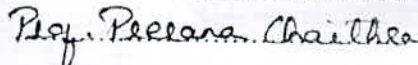Bengaluru - 560 057

Prof. Veena Dhavalgi
Signature of the Guide

Dr. H R Ranganatha
Signature of the HOD
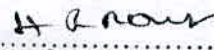
Dr. H Ramakrishna
Signature of the Principal

External Viva

Name of the Examiners

1. H R RANGANATH

2. Prof. Preeana Chaithra

Signature of the Examiners with date

1. H R Rau

2. _____ 10/8/21

SAPTHAGIRI COLLEGE OF ENGINEERING

14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru-560057

[AFFILIATED TO VIVSVESWARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI]

Department of Information Science & Engineering

CERTIFICATE

Certified that the Project work entitled **COMPUTER VISION AND ML BASED UNOBTRUSIVE ATTENDANCE SYSTEM** carried out by **P Arahanth Jain (1SG17IS059), Purushotham M (1SG17IS071), Sachin N(1SG17IS081), Sathish kumar S (1SG17IS091)** bonafide students of 8th semester, Department of Information Science & Engineering carried out at our college **Sapthagiri College of Engineering**, Bengaluru in partial fulfillment of the award of **Bachelor of Engineering** in **Information Science & Engineering** of the **Visvesvaraya Technological University,** Belagavi during the year 2019-20. It is certifiedthat all corrections/suggestions indicated for Final Assessment have been incorporated in the Report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the said Degree.

Signature of the Guide Dr. H.R. Ranganatha Professor & Head	**Signature of the HOD** Dr. H.R. Ranganatha Professor & Head	**Signature of the Principal** Dr. H Ramakrishna Principal

Name of the Examiner   Signature of the Examiner with date

1. Prof. Preeana Chaithra

2. Dr. Asha P N

Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road
Bengaluru - 560 057

ii

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College of Engineering
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Department of Information Science & Engineering

CERTIFICATE

Certified that the Project Phase 1 work entitled **TOUCHLESS HUMAN COMPUTER INTERACTION FOR KISOK DEVICES** carried out by **AMITH S HEGDE (ISG16IS007), PRAJWAL J(ISG17IS062), PRAKRUTHI K(ISG17IS065) and ROSHAN B(ISG17IS0108)** bonafide students of 7th semester, department of **Information Science & Engineering** carried out at our college **Sapthagiri College of Engineering**, Bengaluru in partial fulfillment of the award of **Bachelor of Engineering** in **Information Science & Engineering** of the **Visvesvaraya Technological University**, Belagavi during the year 2020-21. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the said Degree.

Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Heseraghatta Main Road
Bengaluru - 560 057

Signature of the Guide	**Signature of the HOD**	**Signature of the Principal**
Prof. Asha P N	Dr H R Ranganatha	Dr H Ramakrishna S.C.E.,
Associate Professor	HOD, I.S.E., S.C.E.	Bengaluru

Name of the Examiner
1. Prof. Prerana Chaithaa
2. Dr. Asha P N

Signature of the Examiner with date.
1. 11/8/21
2. 11/8/21

SAPTHAGIRI COLLEGE OF ENGINEERING

14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru-560057

[AFFILIATED TO VIVSVESWARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI]

SAPTHAGIRI
College of Engineering

Department of Information Science & Engineering

CERTIFICATE

Certified that the project work entitled **BLIND ASSISTANCE SYSTEM USING CNN** carried out by **NIDHI SURESH TADAS(1SG16IS057), SOWMYA BK (1SG17IS100), VAISHNAVI S NADGIR(1SG16IS117), VIDYA D(1SG17IS106)**

bonafide students of 8th semester, Department of **Information Science & Engineering** carried out at our college **Sapthagiri College of Engineering**, Bengaluru in partial fulfillment of the award of **Bachelor of Engineering** in **Information Science & Engineering** of the **Visvesvaraya Technological University**, Belagavi during the year 2020-21. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the said Degree.

Prof. Sudarsanan D
Assistant Professor
Signature of the Guide

Dr. H.R. Ranganatha

Signature of the HOD

Dr. H Ramkrishna

Signature of the Principal

Reviewer

Name of the Reviewer   **Signature of the Reviewer with date**

1. Prof. Preeana Chaithee

Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road
Bengaluru - 560 057

2. Dr. Asha P.N   2. .... 11|8|21

SAPTHAGIRI COLLEGE OF ENGINEERING

14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru-560057

[AFFILIATED TO VIVSVESWARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI]

SAPTHAGIRI
College of Engineering
Creating Tomorrow

Department of Information Science & Engineering

CERTIFICATE

Certified that the Project work entitled **PREDICTION AND FORECAST OF COVID-19 OUTBREAK IN INDIA BASED ON ENHANCED EPIDOMOLOGICAL MODEL** carried out by **Sahana R (1SG17IS084), Prathibha R (1SG16IS071), Vivek M C (1SG16IS125), Shashi Kumar(1SG16IS091)** bonafide students of 8th semester, department of **Information Science & Engineering** carried out at our college **Sapthagiri College of Engineering**, Bengaluru in partial fulfillment of the award of **Bachelor of Engineering** in **Information Science & Engineering** of the **Visvesvaraya Technological University**, Belagavi during the year 2020-21. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the said Degree.

Signature of the Guide
Prof. Ramya R
Assistant Professor

Signature of the HOD
Dr H R Ranganatha
HOD, I.S.E., S.C.E.

Signature of the Principal
Dr H Ramkrishna
S.C.E., Bengaluru

Examiner
Name of the Examiner

Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road
Bangaluru - 560 057

Signature of the Examiner with date

1. Peg. Peerana Chaithra

2. Dr. Asha P N

1. .... 11/8/21

2. .... 11/8/21