

S.J.P.NTrust's

**HIRASUGAR INSTITUTE OF TECHNOLOGY, NIDASOSHI-591236**

**Inculcating Values, Promoting Prosperity**

Approved by AICTE, Recognized by Govt. of Karnataka and Permanently Affiliated to VTU  
Belagavi.

**Accredited at 'A' Grade by NAAC**

**Programmes Accredited by NBA: CSE & ECE.**

**Academic Year 2022-23**




**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

## **CERTIFICATE**

Certified that the project work entitled **"Intelligent Multipurpose Bomb Detection and Disposal Robot for Defense Applications using AI and sensor Fusion"** Submitted by Mr. Sunil Sutar (2HN20CS403), Miss. Harfa Mujawar (2HN19CS014), Miss. Meenaxi Baad (2HN20CS401), Miss. Sneha Shitole (2HN19CS039) are bonafide student's of **Hirasugar Institute of Technology, Nidasoshi** in partial fulfillment for the award of degree of Bachelor of Engineering in **Computer Science and Engineering** prescribed by Visvesvaraya Technological University, Belagavi during the academic year 2022-23.

  
**Prof. S.V. Manjaragi**  
**Guide**

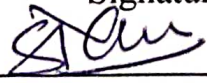
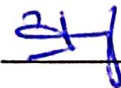
  
**Prof. S.V. Manjaragi**  
**H.O. D**

  
**Dr. S. C. Kamate**  
**Principal**

Name of the Examiners

1. Prof. S.T. More
2. Dr. Sanjay Ankari

Signature

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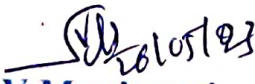
**Academic Year 2022-23**




**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

## **CERTIFICATE**

Certified that the project work entitled "Smart Nose: Detection of Food Decay using AIML" Submitted by Ms. Amruta A Gudimani (2HN19CS005), Ms. Aishwarya Magadum (2HN19CS002), Ms. Seema Tugadalli (2HN19CS036) are bonafide students of **Hirasugar Institute of Technology, Nidasoshi** in partial fulfillment for the award of degree of Bachelor of Engineering in **Computer Science and Engineering** prescribed by Visvesvaraya Technological University, Belagavi during the academic year 2022-23.

  
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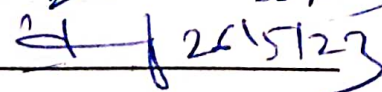
  
**Prof. S.V. Manjaragi**  
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**Dr. S. C. Kamate**  
**Principal**

**Name of the Examiners**

1. Prof. S. I. Mane
2. Dr. Sanjay Ankali

**Signature**

 26/5/23  
 26/5/23



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## **CERTIFICATE**

Certified that the project work entitled **"SMART DRIP IRRIGATION SYSTEM FOR MULTICROP IRRIGATION USING IOT AND SOLAR ENERGY"** Submitted by Mr. Pranav Gaddi (2HN19CS026), Ms. Sakshi Patil (2HN19CS034), Mr. Ganesh Hegade (2HN19CS013), Mr. Rohit Gadiwaddar (2HN18CS022) are bonafide students of **Hirasugar Institute of Technology, Nidasoshi** in partial fulfillment for the award of degree of Bachelor of Engineering in **Computer Science and Engineering** prescribed by Visvesvaraya Technological University, Belagavi during the academic year 2022-23.

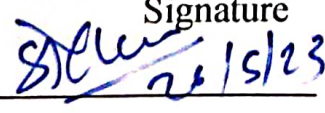
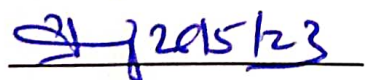
  
**Prof. N. K. Honnagoudar**  
Guide

  
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## **CERTIFICATE**

Certified that the project work entitled **"Smart Eye Typing Application Using Eye Gaze Recognition and Virtual Keyboard"** Submitted by Mr. Prasad Hiremath (2HN19CS027), Ms. Nivedita L Udupudi (2HN19CS020), Mr. Pradeep Raghannavar (2HN19CS023), Ms. Priyanka Kurbet (2HN19CS029) is a bonafide student of **Hirasugar Institute of Technology, Nidasoshi** in partial fulfillment for the award of degree of Bachelor of Engineering in **Computer Science and Engineering** prescribed by Visvesvaraya Technological University, Belagavi during the academic year 2022-23.

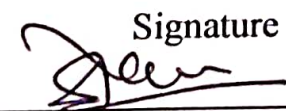
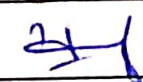
  
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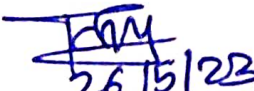
**Academic Year 2022-23**




**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

## **CERTIFICATE**

Certified that the project work entitled **“SMART AI BASED VIDEO SURVEILLANCE FOR WEAPON DETECTION AND SUSPICIOUS ACTIVITY DETECTION”** Submitted by Ms. Megha Chanabasanavar (2HN19CS017), Mr. Pradeep Kamate (2HN19CS022), Ms. Soumya Kadam (2HN19CS043), Mr. Veeresh Veerbhadranavar (2HN19CS047) are bonafide students of **Hirasugar Institute of Technology, Nidasoshi** in partial fulfillment for the award of degree of Bachelor of Engineering in **Computer Science and Engineering** prescribed by Visvesvaraya Technological University, Belagavi during the academic year 2022-23.

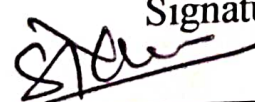
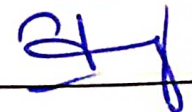
  
26/5/23  
**Dr. K. B. Manwade**  
**Guide**

  
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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

## CERTIFICATE

Certified that the Seminar on **"Blood Cell Counting in Smear Images Using Machine Learning"** Submitted by Ms. Padma Borannavar(2HN19CS021), Ms. Akshata Mokashi(2HN19CS004), Ms. Sahana Naik (2HN19CS031), Ms. Keerti Chajagoud(2HN19CS016) are bonafide students of **Hirasugar Institute of Technology, Nidasoshi** in partial fulfillment for the award of degree of Bachelor of Engineering in **Computer Science and Engineering** prescribed by Visvesvaraya Technological University, Belagavi during the academic year 2022-23

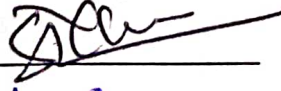
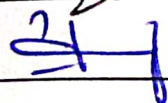
  
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2. Dr. Sanjay Ankali

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**CERTIFICATE**

Certified that the project work entitled **"Body Movement and Heart Beat Monitoring of Coma Patients using IoT"** Submitted by Ms. Mithila Sutar (2HN19CS018), Ms. Sahana Praveen Telsang (2HN19CS033), Ms. Suprita Sindhur (2HN19CS045), Ms. Anupriya Mugalkhod (2HN20CS400) are bonafide students of **Hirasugar Institute of Technology, Nidasoshi** in partial fulfillment for the award of degree of Bachelor of Engineering in **Computer Science and Engineering** prescribed by Visvesvaraya Technological University, Belagavi during the academic year 2022-23.

**Prof. A. A. Daptardar**  
**Guide**

**Prof. S. V. Manjaragi**  
**H. O. D**

**Dr. S. C. Kamate**  
**Principal**

Name of the Examiners

1. Prof. S. I. Mane
2. Dr. Sanjay B. Ankali

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**CERTIFICATE**

Certified that the Seminar on **"Smart Face Recognition Based Attendance System Using Deep Learning with Automation"** Submitted by Mr. Digvijay Pattanakodi (2HN19CS012), Miss. Prajakta Burli (2HN19CS024), Miss. Vaibhavi Desai (2HN19CS046), Miss. Priyanka Ningai (2HN20CS402) are bonafide students of **Hirasugar Institute of Technology, Nidasoshi** in partial fulfillment for the award of degree of Bachelor of Engineering in **Computer Science and Engineering** prescribed by Visvesvaraya Technological University, Belagavi during the academic year 2022-23

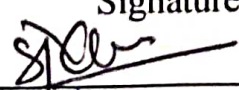
  
**Prof. Prasanna Patil**  
**Guide**

  
**Prof. S. V. Manjaragi**  
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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

## CERTIFICATE

Certified that the project work entitled "Chronic Kidney Disease Prediction and Diet Plan Recommendation Using Machine Learning" Submitted by Ms. Sneha S Hirekodi (2HN19CS040), Ms. Sneha V Ganachari (2HN19CS041), Ms. Bandavva B Satigoudar (2HN19CS008), Ms. Ashwini V Maled (2HN18CS005) are bonafide students of Hirasugar Institute of Technology, Nidasoshi in partial fulfillment for the award of degree of Bachelor of Engineering in Computer Science and Engineering prescribed by Visvesvaraya Technological University, Belagavi during the academic year 2022-23


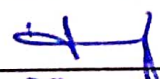
  
Dr. M. G. Huddar  
Guide

  
Prof. S. V. Manjaragi  
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Dr. S. C. Kamate  
Principal

Name of the Examiners

1. Prof. S. I. Mane
2. Dr. Saigya Ankali

Signature  
  


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Academic Year 2022-23




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**CERTIFICATE**

Certified that the project work entitled **“Bone Fracture Detection and Classification in XRAY Images Using Machine Learning”** Submitted by Mr. Ashwathraj Nerli (2HN19CS007), Mr. Viresh Omkar (2HN19CS049), Ms. Sahana Patil (2HN19CS032), Mr. Aftabahmad Qazi (2HN19CS001) are bonafide students of **Hirasugar Institute of Technology, Nidasoshi** in partial fulfillment for the award of degree of Bachelor of Engineering in **Computer Science and Engineering** prescribed by Visvesvaraya Technological University, Belagavi during the academic year 2022-23.

  
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## CERTIFICATE

Certified that the project work entitled "SMART CAR PREDICTIVE MAINTENANCE AND OTP KEY SHARING SYSTEM" Submitted by Mr. Basavaraj Bhandare (2HN19CS009), Ms. Daneshwari Sultanpure (2HN19CS011), Mr. Rohit Mali (2HN19CS030), Mr. Solapure Amrut B (2HN19CS042) are bonafide students of Hirasugar Institute of Technology, Nidasoshi in partial fulfillment for the award of degree of Bachelor of Engineering in Computer Science and Engineering prescribed by Visvesvaraya Technological University, Belagavi during the academic year 2022-23

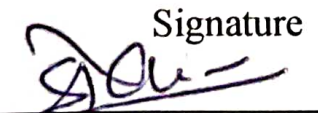
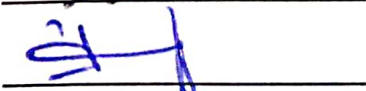
  
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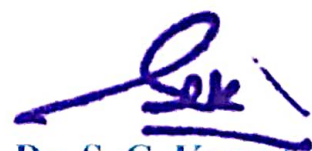
**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

**CERTIFICATE**

Certified that the Seminar on **“WILDFIRE DETECTION FROM SATELLITE IMAGES USING DEEP NEURAL NETWORKS”** Submitted by Ms. Chaitra Yapalaparvi (2HN19CS010), Mr. Muzammil Patel (2HN19CS019), Ms. Samiksha Chougale (2HN19CS035), Mr. Nihal Shaikh (2HN19CS037) are bonafide students of **Hirasugar Institute of Technology, Nidasoshi** in partial fulfillment for the award of degree of Bachelor of Engineering in **Computer Science and Engineering** prescribed by Visvesvaraya Technological University, Belagavi during the academic year 2022-23

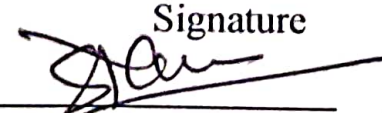

  
**Prof. Prasanha Patil**  
**Guide**

  
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Certified that the project work entitled **"Detection and Analysis of Stress using Machine Learning Technique"** Submitted by Mr. Vineet R Gandolli (2HN19CS048), Mr. Kartik Kumbar (2HN19CS015), Mr. Akhilesh Hallolli (2HN19CS003), Mr. Sharanabasappa Chalikar (2HN19CS038) are bonafide students of **Hirasugar Institute of Technology, Nidasoshi** in partial fulfillment for the award of degree of Bachelor of Engineering in **Computer Science and Engineering** prescribed by Visvesvaraya Technological University, Belagavi during the academic year 2022-23.

  
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