

**PROFESSIONAL TRAINING REPORT**  
**at**  
**Sathyabama Institute of Science and Technology**  
**(Deemed to be University)**

Submitted in partial fulfillment of the requirements for the award  
of Bachelor of Engineering Degree in  
Computer Science and Engineering  
By

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**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**  
**SCHOOL OF COMPUTING**

**SATHYABAMA**

**INSTITUTE OF SCIENCE AND TECHNOLOGY**  
**(DEEMED TO BE UNIVERSITY)**

**Accredited with Grade "A" by NAAC**

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**AUGUST 2019**



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

**BONAFIDE CERTIFICATE**

This is to certify that this Project Report is the bonafide work of **VIGNESWARI.A (Reg. No. 37110837)** and who carried out the project entitled "**MOTION DETECTION AND TRACKING USING OPENCV WITH PYTHON**" under our supervision from May 2019 to August 2019.

**Internal Guide**

Mrs.M.D. Anto praveena ,M.E.,Ph.D

**Head of the Department**

Dr.S.vigneshwari ,M.E.,Ph.D.,

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**Submitted for Viva voce Examination held on \_\_\_\_\_**

**Internal Examiner**

**External Examiner**

## **DECLARATION**

I **VIGNESWARI.A** (Reg No:**37110837**) hereby declare that the Project Report entitled “**MOTION DETECTION AND TRACKING USING OPENCV WITH PYTHON** ” done by me under the guidance of **Mrs.M.D.Anto Praveena ,M.E,Ph.D.** , is submitted in partial fulfillment of the requirements for the award of Bachelor of Engineering degree in Computer Science and Engineering.

**DATE:**

**PLACE:**

**SIGNATURE OF THE CANDIDATE**

## ACKNOWLEDGEMENT

We are pleased to acknowledge our sincere thanks to Board of management of **SATHYABAMA** for their kind encouragement in doing this project and for completing it successfully. We are grateful to them.

We convey our thanks to **Dr.T.Sasikala, M.E.,Ph.D. ,Dean ,School of computing and Dr. S. Vigneshwari, M.E., Ph.D., Head of the Department, Department of Computer Science and Engineering** for providing us the necessary support and details at the right time during the progressive reviews.

We would like to express our sincere and deep sense of gratitude to our Project Guide **Mrs.M.D Anto Praveena M.E.,Ph.D**, for her valuable guidance, suggestions and constant encouragement paved way for the successful completion of my project work.

We wish to express our thanks to all Teaching and Non-teaching staff members of the Department of **COMPUTER SCIENCE AND ENGINEERING** who were helpful in many ways for the completion of the project.

## **ABSTRACT**

This project is about motion detection using the technique computer vision. computer vision is an interdisciplinary scientific field. That deals with how computers can be made to gain high-level understanding from digital image and videos. From the perspective of engineering, it seeks to automate tasks that the human visual system can do. This project is build using python and some other packages of opencv like numpy, cv2, matplotlib, by using this technique we can detect motion and can track by drawing contour on it or by threshold view in this view everything is black except the motion of an object even by using threshold effect we can detect vary accurate moion ,this technique is useful to detect even a very minute movement which cannot find by our naked eye.

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## TRAINING CERTIFICATE

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10 June 2019

This is to certify that

A.VIGNESWARI

has completed a project-based online course on

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A handwritten signature in black ink, appearing to be "Pavan Kumar P", written over a horizontal line.

Pavan Kumar P  
CEO, Skyfi Labs



