



# Aditya College of Engineering & Technology

Aditya Nagar, ADB Road, Surampalem - 533437

## DEPARTMENT OF INFORMATION TECHNOLOGY

### B. Tech 4/4, II-SEMESTER

II Semester 2020-21

## SUSPICIOUS ACTIVITY DETECTION

### ABSTRACT

With the increasing in the number of anti-social activates that have been taking place, security has been given utmost importance lately. Many Organizations have installed CCTVs for constant Monitoring of people and their interactions. For a developed Country with a population of 64 million, every person is captured by a camera 30 times a day. A lot of video data generated and stored for a certain time duration. A 704x576 resolution image recorded at 25fps will generate roughly 20GB per day. Constant Monitoring of data by humans to judge if the events are abnormal is near impossible task as requires a workforce and their constant attention. This creates a need to automate the same. Also, there is need to show in which frame and which part of it contain the unusual activity which aid the faster judgment of the unusual activity being abnormal. This is done by converting video into frames and analyzing the persons and their activates from the processed frame. Machine learning and Deep Learning Algorithms and techniques support us in a wide accept to make Possible.

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## **Course Outcomes (COs)**

### **Course Outcomes**

After completing this course, the student will be able to:

<b>CO Number</b>	<b>CO Statement</b>	<b>Taxonomy</b>
CO1	Demonstrate the technical knowledge to identify problems in the field of Information Technology and its allied areas.	Understand
CO2	Use literature to identify the objective, scope and the concept of the work.	Apply
CO3	Analyze and formulate technical projects with a comprehensive and systematic approach.	Analyse
CO4	Identify the modern tools to implement technical projects.	Evaluate
CO5	Design engineering solutions for solving complex engineering problems.	Create
CO6	Develop effective communication skills, professional behaviour and team work.	Understand

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**CO-PO/PSO MATRIX:**

	<b>PO 1</b>	<b>PO 2</b>	<b>PO 3</b>	<b>PO 4</b>	<b>PO 5</b>	<b>PO 6</b>	<b>PO 7</b>	<b>PO 8</b>	<b>PO 9</b>	<b>PO 10</b>	<b>PO 11</b>	<b>PO 12</b>	<b>PSO 1</b>	<b>PSO 2</b>	<b>PSO 3</b>
<b>CO1</b>	3	2	1	2		1			3	2	2	2	3	2	1
<b>CO2</b>	2	1	2	2	1	1		1	3	2	2	2	3	3	
<b>CO3</b>	2	3	2	2	1	1	1		3	2	2	2	2	2	
<b>CO4</b>	3	1	3	2	3	1	1	2	3	2	2	2	2	3	1
<b>CO5</b>	2	2	3	3	1	1		1	2	2	1	2	2	1	1
<b>CO6</b>	1	1	1	2	1	1	1	2	2	3	2	2	1	1	2
<b>Course</b>	2.2	1.7	2.0	2.2	1.2	1.0	0.5	1.0	2.7	2.2	1.8	2.0	2.2	2.0	0.8

PO1	Engineering Knowledge	PO7	Environment & Sustainability
PO2	Problem Analysis	PO8	Ethics
PO3	Design / Development of Solutions	PO9	Individual & Team Work
PO4	Conduct Investigations of complex problems	PO10	Communication Skills
PO5	Modern Tool usage	PO11	Project Management & Finance
PO6	Engineer & Society	PO12	Life-long Learning

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