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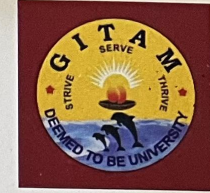**NASSCOM**®

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1. Hexathon 2023

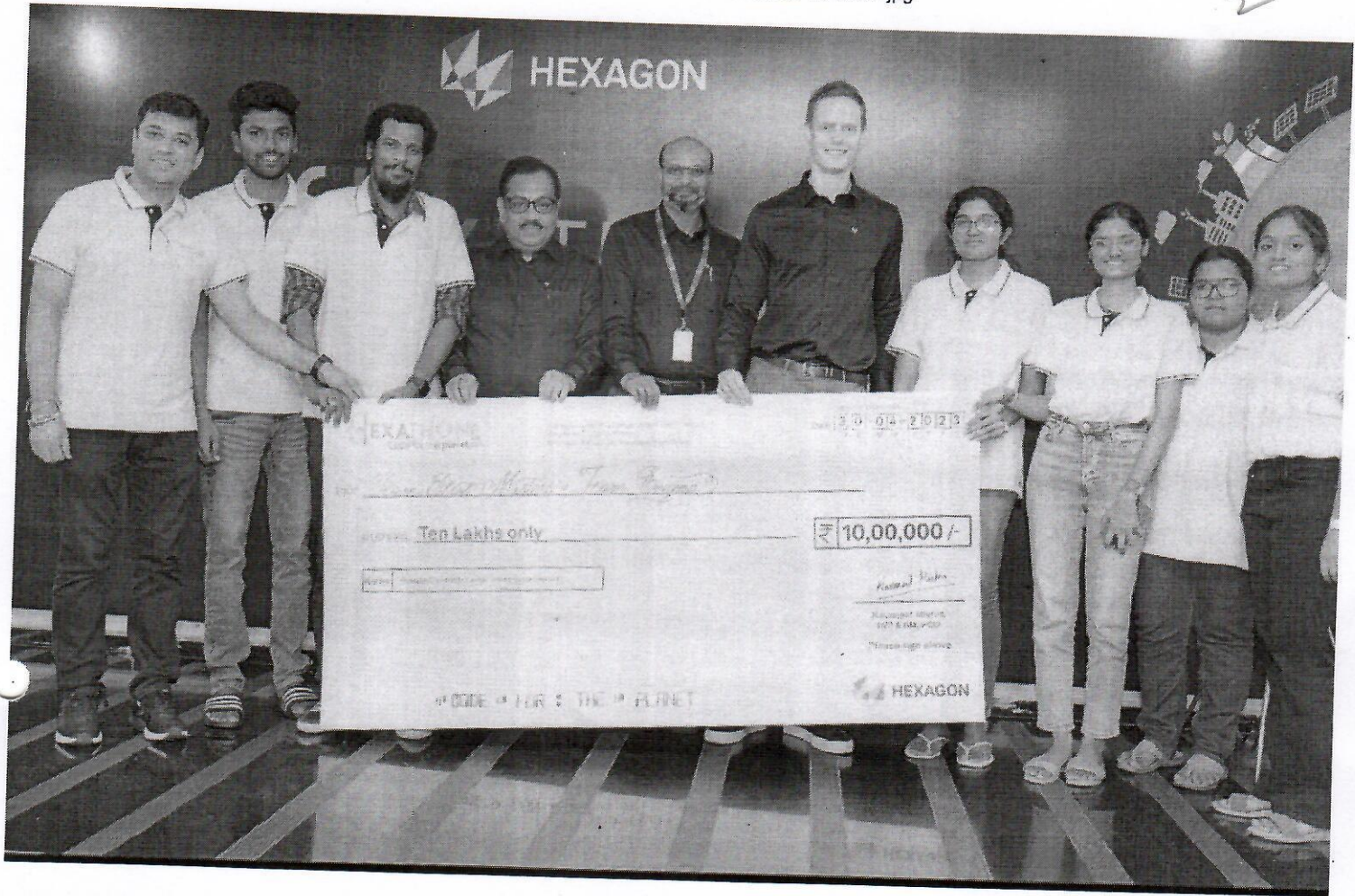
Won Hexagon's Hexathon-2023 Hackathon worth 5 Lakh.

Company:Hexagon Capability Centre India

Event Date: April 29,30th,2023

Mokshitha 160120748005

Sreya 160120748017

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HEXAGON

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SUSTAINABILITY FOR A BETTER FUTURE

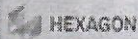### THIS CERTIFICATE IS AWARDED TO

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CBIT (A), Hyderabad

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Contractors Development Institute, (CDI) in

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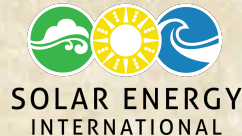
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(51) International classification :G08G0001087000, G08G0001096800, G08G0001096700, G08G0001096500, G08G0001160000 (86) International Application No :PCT// Filing Date :01/01/1900 (87) International Publication No : NA (61) Patent of Addition to Application Number :NA Filing Date :NA (62) Divisional to Application Number :NA Filing Date :NA	(71)Name of Applicant : 1)Chaitanya Bharathi Institute of Technology Address of Applicant :Chaitanya Bharathi Institute of Technology, Gandipet, Hyderabad, T.S, India, Pin-500075 Hyderabad ----------- ----------- Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Dr. Y. Ramadevi Address of Applicant :Professor, Chaitanya Bharathi Institute of Technology, Gandipet, Hyderabad, T.S, India, PIN: 500075 Hyderabad ----------- ----------- 2)Dr. Raman Dugyala Address of Applicant :Professor, Chaitanya Bharathi Institute of Technology, Gandipet, Hyderabad, T.S, India, PIN: 500075 Hyderabad ----------- ----------- 3)Dr. T Sridevi Address of Applicant :Associate Professor, Chaitanya Bharathi Institute of Technology, Gandipet, Hyderabad, T.S, India, PIN: 500075 Hyderabad ----------- ----------- 4)Dr. Premkumar Chithaluru Address of Applicant :Associate Professor, Chaitanya Bharathi Institute of Technology, Gandipet, Hyderabad, T.S, India, PIN: 500075 Hyderabad ----------- ----------- 5)Ms. Ch. Vijaya Lakshmi Address of Applicant :Assistant Professor, Chaitanya Bharathi Institute of Technology, Gandipet, Hyderabad, T.S, India, PIN: 500075 Hyderabad ----------- ----------- 6)Ms. G. Kavita Address of Applicant :Assistant Professor, Chaitanya Bharathi Institute of Technology, Gandipet, Hyderabad, T.S ,India, PIN: 500075 Hyderabad ----------- ----------- 7)Ms. Ch. Madhavi Sudha Address of Applicant :Assistant Professor, Chaitanya Bharathi Institute of Technology, Gandipet, Hyderabad, T.S, India, PIN: 500075 Hyderabad ----------- ----------- 8)Mr. M. Venkata Krishna Reddy Address of Applicant :Assistant Professor, Chaitanya Bharathi Institute of Technology, Gandipet, Hyderabad, T.S, India, PIN: 500075 Hyderabad ----------- ----------- 9)Akhtar Palla Mohammad Address of Applicant :206 A Block, Skyline Sterling Rec. Basheer Bagh, Hyderabad, 500029 Hyderabad ----------- ----------- 10)K Shiva Kiran Address of Applicant :Flat 312, Kondal Reddy Apartment, Nalanda Nagar, Attapur, RR Dist Hyderabad ----------- ----------- 11)KOLLI KRISHNA RISHI Address of Applicant :Plot No B-23, Panchavati Colony, Manikonda, Hyderabad, 500089 Hyderabad ----------- -----------

(57) Abstract :

ABSTRACT [500] A Smart Traffic light that can decide green time and red time efficiently by judging the traffic in all lanes and dividing green time accordingly. When an emergency vehicle is near a traffic light then automatically traffic light should turn green for emergency vehicle to pass easily. Clog in rush hour gridlock is a difficult issue these days. In spite of the fact that it appears to plague all over, super urban communities are the ones generally impacted by it. Also, it's consistently expanding nature makes it basic to realize the street traffic thickness continuously for better sign control and successful traffic the board. There can be various reasons for clog in rush hour gridlock like lacking limit, excessive interest, and huge Red Light postponements and so on. While inadequate limit and intemperate interest are some place interrelated, the postponement of separate light is hard coded and not subject to traffic. Accordingly the requirement for mimicking and enhancing traffic light to all the more likely oblige this rising interest emerges. Lately, video checking and reconnaissance frameworks have been generally utilized in rush hour gridlock the executives for explorer's data, slope metering and refreshes continuously. The traffic thickness assessment and vehicle order can likewise be accomplished utilizing video checking frameworks. This paper presents the technique to utilize live video feed from the cameras at traffic intersections for continuous traffic thickness estimation utilizing video and picture handling. It additionally centers around the calculation for exchanging the traffic signals as indicated by vehicle thickness on street, consequently targeting lessening the gridlock on streets which will assist with bringing down the quantity of mishaps. Thus it will give safe travel to individuals and diminish fuel utilization and holding up time. It will likewise give critical information which will help in future street arranging and examination. In additional stages numerous traffic signals can be synchronized with one another with a point of even less gridlock and free progression of traffic.

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