Criteria 3- Research, Innovations and Extension

3.2.1 Institution has created an ecosystem for innovations, Indian Knowledge System (IKS), including awareness about IPR, establishment of IPR cell, Incubation centre and other initiatives for the creation and transfer of knowledge/technology and the outcomes of the same are evident

S.No	Event	Date	Page Number
1	Patents Published by Faculty Members	01-09-2023	2-6
2	IIC Establishment Certificate	27-09-2022	7
3	Seminar through IIC	18-07-2023	8-17
4	Seminar through IIC	04-08-2023	18-26

Criteria 3- Research, Innovations and Extension

	Patents Published by Faculty Members							
S.No	Name of faculty	Patent Title	Date of filing of Application	Year	Application No	Publication Date	Patent Journal No	LINK
1	Dr J.BABU	An Enhancements to a Deep Learning Model for Intrusion Detection System in Internet of Things(IoT)Devices	04/07/2023	2023	202341044719 A	01/09/2023	55876	

OFFICIAL JOURNAL OF THE PATENT OFFICE

नर**्रमर् स**ं. 35/2023 शुक्वार दिर्ाक : 01/09/2023 ISSUE NO. 35/2023 FRIDAY DATE: 01/09/2023

पटेंट कार्ाालर् का एक प्रकाशर् PUBLICATION OF THE PATENT OFFICE

INTRODUCTION

In view of the recent amendment made in the Patents Act, 1970 by the Patents

(Amendment) Act, 2005 effective from 01st January 2005, the Official Journal of The

Patent Office is required to be published under the Statute. This Journal is being

published on weekly basis on every Friday covering the various proceedings on Patents

as required according to the provision of Section 145 of the Patents Act 1970. All the

enquiries on this Official Journal and other information as required by the public should

be addressed to the Controller General of Patents, Designs & Trade Marks. Suggestions

and comments are requested from all quarters so that the content can be enriched.

(PROF. (DR) UNNAT P. PANDIT)

CONTROLLER GENERAL OF PATENTS, DESIGNS & TRADE MARKS

1ST SEPTEMBER, 2023

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(22) Date of filing of Application: 04/07/2023

(43) Publication Date: 01/09/2023

(54) Title of the invention: An Enhancements to a Deep Learning Model for Intrusion Detection System in Internet Of Things(IoT) Devices

:G06N0003080000. (51) International G06K0009620000. classification G06N0020000000, (86) International G06F0021550000, Application No H04L0067120000 Filing Date :PCT// (87) International :01/01/1900 Publication No (61) Patent of Addition to : NA Application Number Filing Date :NA (62) Divisional to :NA Application Number Filing Date :NA

:NA

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4)Dr Vontela Neelima

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6)Dr. Durgarao Guttula

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Address of Applicant: NA (72)Name of Inventor:

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(57) Abstract:

An Enhancements to a Deep Learning Model for Intrusion Detection System in Internet of Things (IoT) Devices. The Internet of Things is a game-changing technology for upcoming decades. Its widespread development makes it vulnerable to cyber attacks, making intrusion detection systems (IDSs) for IoT important. Due to machine learning's usefulness, analysts are already using learning approaches to effectively detect, identify, and respond to cyber attacks and other odd behaviour in IoTs. An improved anomaly-based intrusion detection system using deep learning is proposed in this invention. The dataset has a multi-class classification model (EIDM) that can categorize 15 traffic behaviours, including 14 different attack types, six kinds of network traffic behaviour are also customized among four cutting-edge deep learning models. A thorough comparison of EIDM and many cutting-edge deep learning-based IDSs in terms of classification accuracy and efficiency metrics demonstrates that EIDM has to produce accurate detection results in this invention.

No. of Pages: 11 No. of Claims: 6









CERTIFICATE OF ESTABLISHMENT

This is to certify that

Dr. Lankapalli Bullayya College of, Visakhapatanam

has established an Institution's Innovation Council (IC202220942) in the campus as per the norms of Innovation Cell, Ministry of Education, Govt. of India during the academic calendar year 2022-23

Prof. Anil D. Sahasrabudhe

Chairman AICTE Abhay Tre Dr. Abhay Jere

Chief Innovation Officer Ministry of Education's Innovation Cell

Certificate No: 10490

Aishe Code: C-23917

Date: 27-09-2022

Report on Seminar on 'Entrepreneurship' 18-07-2023

Organized by Department of Institute Innovative Council (IIC)



Dr. Lankapalli Bullayya College of Engineering,

(Approved by AICTE, New Delhi, Affiliated to Andhra University, Visakhapatnam)
Visakhapatnam

Dr. LANKAPALLI BULLAYYA COLLEGE OF ENGINEERING

The Society For Collegiate Education
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52-14-75, Resapuvanipalem, Visakhapatnam - 530 013.

Ph : Off : 0891-2703293, 2703296

Email: principal@lbce.edu.in Website: www.lbce.edu.in

CIRCULAR

DATE: 10-07-2023

It is here by informed that Dr.Lankapalli Bullayya College of Engineering is planning to conduct a seminar on 'Entrepreneurship' for IIC (Institute Innovate Council). The aim of the seminar is to encourage and showcase innovative ideas from aspiring entrepreneurs and students. All the students are informed to participate and share their innovative ideas addressing the social issues.

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Dr. LANKAPALLI BULLAYYA COLLEGE OF ENGINEERING



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Ph: Off: 0891-2703293, 2703296

Email: principal@lbce.edu.in Website: www.lbce.edu.in

Department of Institute Innovative Council (IIC)

Date: 18-07-2023

About IIC Department:

Institution's Innovation Council (IIC) at Dr.Lankapalli Bullayya College of Engineering is a unique model to promote innovation and incubation of ideas among student and faculty fraternity. IIC helps to build the entrepreneurship ecosystem in the institute and it would be a platform to bring the budding technical ideas of young upcoming engineering graduates into reality. IIC is conducting various activities likeinteractive sessions of renowned entrepreneurs with students, being a facilitator in filing patents of novel ideas of the institute fraternity. In the future, the center is striving hard to be a center of excellence for startups.

Vision:

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Mission:

- To continually evaluate, innovate and strive towards excellence in technological innovations.
- To create future managers and technical manpower for meeting the current and future demands of industry.
- To constantly endeavour to provide eco system or simulating environment where the ideas are nurtured and incubated.
- To reorganize education and research in close interaction with industry with emphasis on the development.
- Leadership qualities in the young men and women entering the portals of the Institute with sensitivity to social development and eye for opportunities for growth in the international perspective.



DR. LANKAPALLI BULLAYYA COLLEGE OF ENGINEERING, VISAKHAPATNAM

ORGANISED BY

INSTITUTE INNOVATION COUNCIL (IIC)

Seminar on Entrepreneurship



Come and be a part of an exciting seminar that focuses on entrepreneurship! This special event will introduce you to the world of starting your own business and becoming an entrepreneur. Don't miss out on this incredible opportunity to gain valuable insights and kick-start your entrepreneurial dreams!

DATE:

18 JULY 2023

TIME:

3:00 P.M to 4:00 P.M



INSTITUTION'S

INNOVATION COUNCIL

Ms. Hima Bindu Chairwoman, CII IWN Andhra Pradesh, MD, Novel Patent Services

Dr. Anand Gondesi IIC - President Prof. D. Deepak Chowdary Principal Dr. G. Vamsi Krishna IIC - Convenor

Report:

Entrepreneurship is the dynamic process of transforming innovative ideas into viable and sustainable business ventures. It embodies the spirit of creativity, risk-taking, and determination tocarve a path towards success. Entrepreneurs are driven by their passion for solving problems, identifying unmet needs, and introducing disruptive solutions to the market. With a keen eye onmarket trends and customer preferences, they craft well-defined business plans and strategies tosteer their ventures towards growth and profitability. Despite the inherent challenges anduncertainties, entrepreneurs exhibit unwavering perseverance, learning from failures, andembracing continuous improvement. Beyond personal rewards, entrepreneurship plays a pivotalrole in driving economic progress, fostering job creation, and igniting societal change.













ATTENDANCE SHEET

Date: 18-07-23

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Report on

Seminar - 'Growth Strategy & Marketing Innovative Products'

04-08-2023

Organized by Department of Institute Innovative Council (IIC)



Dr. Lankapalli Bullayya College of Engineering,

(Approved by AICTE, New Delhi, Affiliated to Andhra University, Visakhapatnam)
Visakhapatnam

Dr. LANKAPALLI BULLAYYA COLLEGE OF ENGINEERING

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Ph: Off: 0891-2703293, 2703296

Email: principal@lbce.edu.in Website: www.lbce.edu.in

CIRCULAR

DATE: 27-07-2023

It is here by informed that Dr.Lankapalli Bullayya College of Engineering is planning to conduct a seminar on 'Growth Strategy & Marketing Innovative Products' for IIC (Institute Innovate Council). The aim of the seminar is to encourage and showcase innovative ideas from aspiring entrepreneurs and students. All the students are informed to participate and share their innovative ideas addressing the social issues.

Copy to Hon'ble Secretary and Correspondent Copy to all HODs, SDC Coordinator IQAC Coordinator

HOD CSE	HOD Civil	HOD EEE	HOD ECE	HOD BS & H
SDC	R&D Cell	IQAC	OFFICE	
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Dr. Lankapalli Bullayya College of Engineering

New Resapuvani Palem, Visakhapatnam

Sponsored by Society of Collegiate Education
Approved by AICTE, Affiliated to Andhra University

Date: 04-08-2023

About IIC Department:

Institution's Innovation Council (**IIC**) at Dr.Lankapalli Bullayya College of Engineering is a unique model to promote innovation and incubation of ideas among student and faculty fraternity. IIC helps to build the entrepreneurship eco system in the institute and it would be a platform to bring the budding technical ideas of young upcoming engineering graduates into reality. IIC is conducting various activities like interactive sessions of renowned entrepreneurs with students, being a facilitator in filing patents of novel ideas of the institute fraternity. In the future, the center is striving hard to be a center of excellence for startups.

Vision:

To establish as centre of excellence in innovation and make the institute as hub of Entrepreneurs.

Mission:

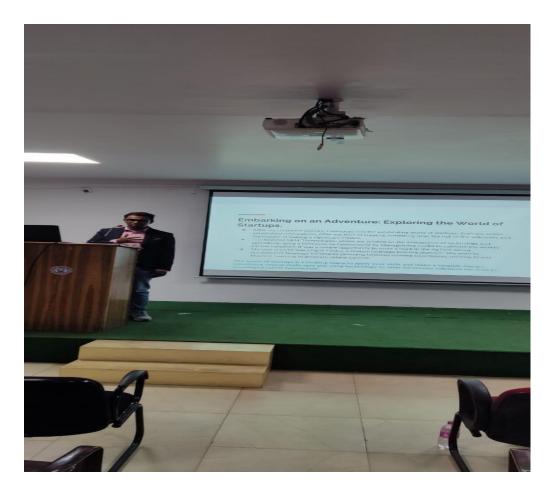
- To continually evaluate, innovate and strive towards excellence in technological innovations.
- To create future managers and technical manpower for meeting the current and future demands of industry.
- To constantly endeavor to provide eco system or simulating environment where the ideas are nurtured and incubated.
- To reorganize education and research in close interaction with industry with emphasis on the development.
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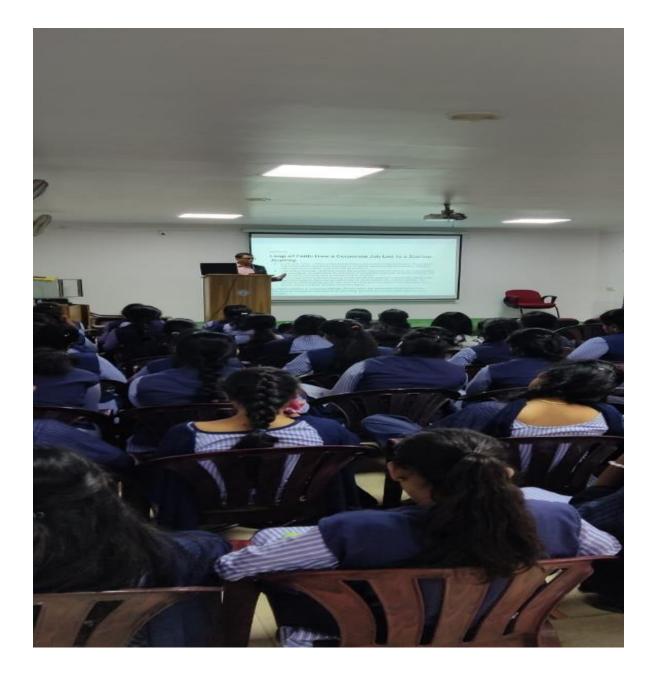
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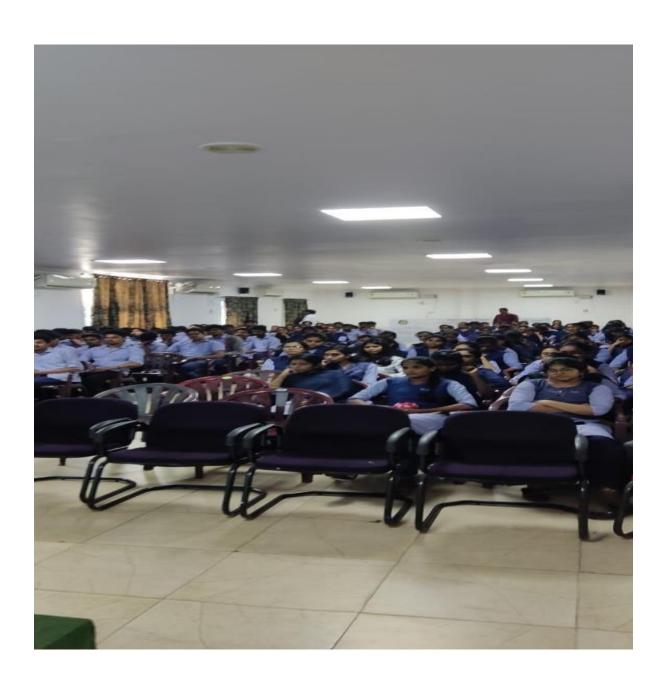
The growth strategy in marketing lies in its ability to propel a business forward and achieve long-term success. A growth strategy enables businesses to stay ahead of competitors by continuously evolving and adapting to changing market conditions. It helps identify and capitalize on untapped opportunities, expanding the customer base and market share. Effective growth strategies lead to increased sales, higher customer retention, and ultimately improved profitability.

By focusing on strategic growth initiatives, resources can be allocated more efficiently, reducing waste and maximizing returns. Enhance Brand Reputation Successful growth strategies can enhance brand's reputation, leading to increased customer loyalty and advocacy. A solid growth strategy makes a business more attractive to investors and potential partners, facilitating further expansion. Pursuing growth often requires innovative thinking, which fosters creativity and drives continuous improvement within the organization.











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