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TULSIRAMJI GAIKWAD-PATIL
College of Engineering & Technology

An Autonomous Institute

DTE CODE 4151

NAAC A+

NBA NATIONAL BOARD OF ACCREDITATION

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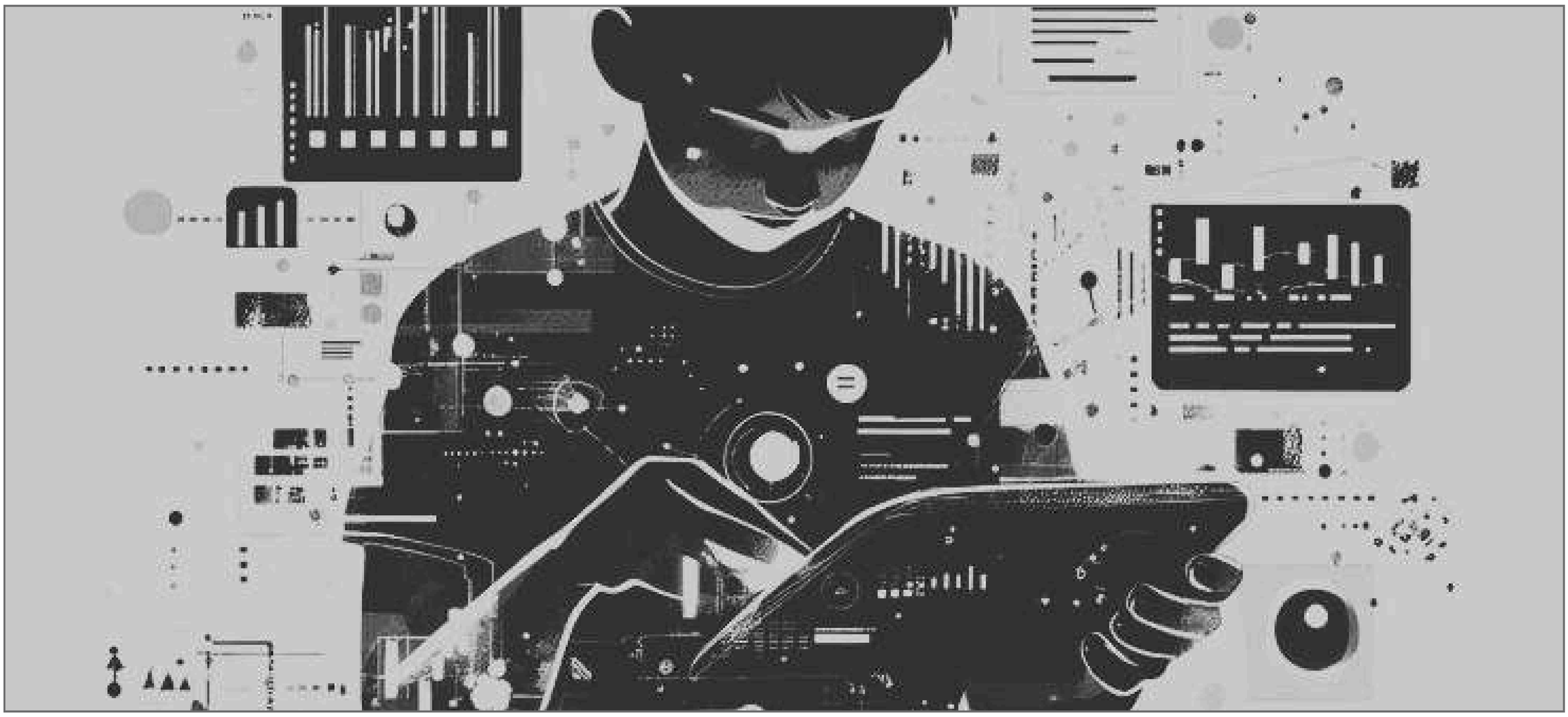


DATAZOIDS

DEPARTMENT OF CSE DATA-SCIENCE

PREDICT - PREPARE - PROSPER

VISION AND MISSON OF INSTITUTE

VISION OF THE INSTITUTE

To emerge as a learning **Center of Excellence** in the National Ethos in domains of Science, Technology and Management.

MISSION OF THE INSTITUTE

- To strive for rearing standard and stature of the students by practicing high standards of Professional ethics, transparency and accountability.
- To provide facilities and services to meet the challenges of Industry and Society. To facilitate socially responsive research, innovation and entrepreneurship.
- To ascertain holistic development of the students and staff members by inculcating Knowledge and profession as work practices.
- Provide excellent computing facility to nurture the young professional for lifelong learning.

DEPARTMENT VISION AND MISSION

VISION OF THE DEPARTMENT

To emerge as a **Centre of Excellence** in Data Science, nurturing expertise in Analytics and Machine Learning for national development.

MISSION OF THE DEPARTMENT

- ·To build a **strong foundation** in Data Science by fostering professionalism, integrity, and accountability.
- ·To create **advanced learning ecosystems** and resources that prepare students for industry and societal challenges in the digital era.
- ·To encourage impactful research, innovation, and entrepreneurial ventures with emphasis on **Data Analytics** and Artificial Intelligence.
- ·To promote the overall **growth** of students and faculty by integrating knowledge, values, and lifelong learning into practice.

PEO's

- **PEO 1:** Apply Data Science, Analytics and ML knowledge to solve problems with ethical and accountable practices.
- **PEO 2:** Develop solutions, adapt to new technologies, and contribute to industry and society.
- **PEO 3:** Engage in research. Design innovation solutions, and pursure enterperneurship in Data Science.
- **PEO 4:** Demonstrate Lifetime learning, professional ethics, and socio-disciplinary values for overall growth.

PSO's

- **PSO 1-** Data Analytics Proficiency: Apply statistical methods, data mining, and machine learning techniques to analyze and interpret complex data for meaningful insights.
- **PSO 2 -** Solution Design & Development: Design, develop, and implement data-driven solutions and predictive models to address real-world industry and societal challenges.
- **PSO 3** – Research, Innovation & Ethics: Conduct socially responsive research, innovate in data-driven applications, and demonstrate professional ethics with lifelong learning orientation.

PROGRAM OUTCOMES PO'S

1. Engineering Knowledge: Applying fundamentals in math, science, and engineering.

2. Problem Analysis: Identifying, formulating, and analyzing complex problems.

3. Design/Development of Solutions: Designing systems, components, or processes meeting needs.

4. Conduct Investigations: Researching, experimenting, and analyzing data.

5. Modern Tool Usage: Using contemporary tools for engineering practice.

6. Engineer & Society: Ethical responsibility, safety, and societal impact.

7. Environment & Sustainability: Understanding sustainable development principles.

8. Ethics: Professional and ethical responsibility.

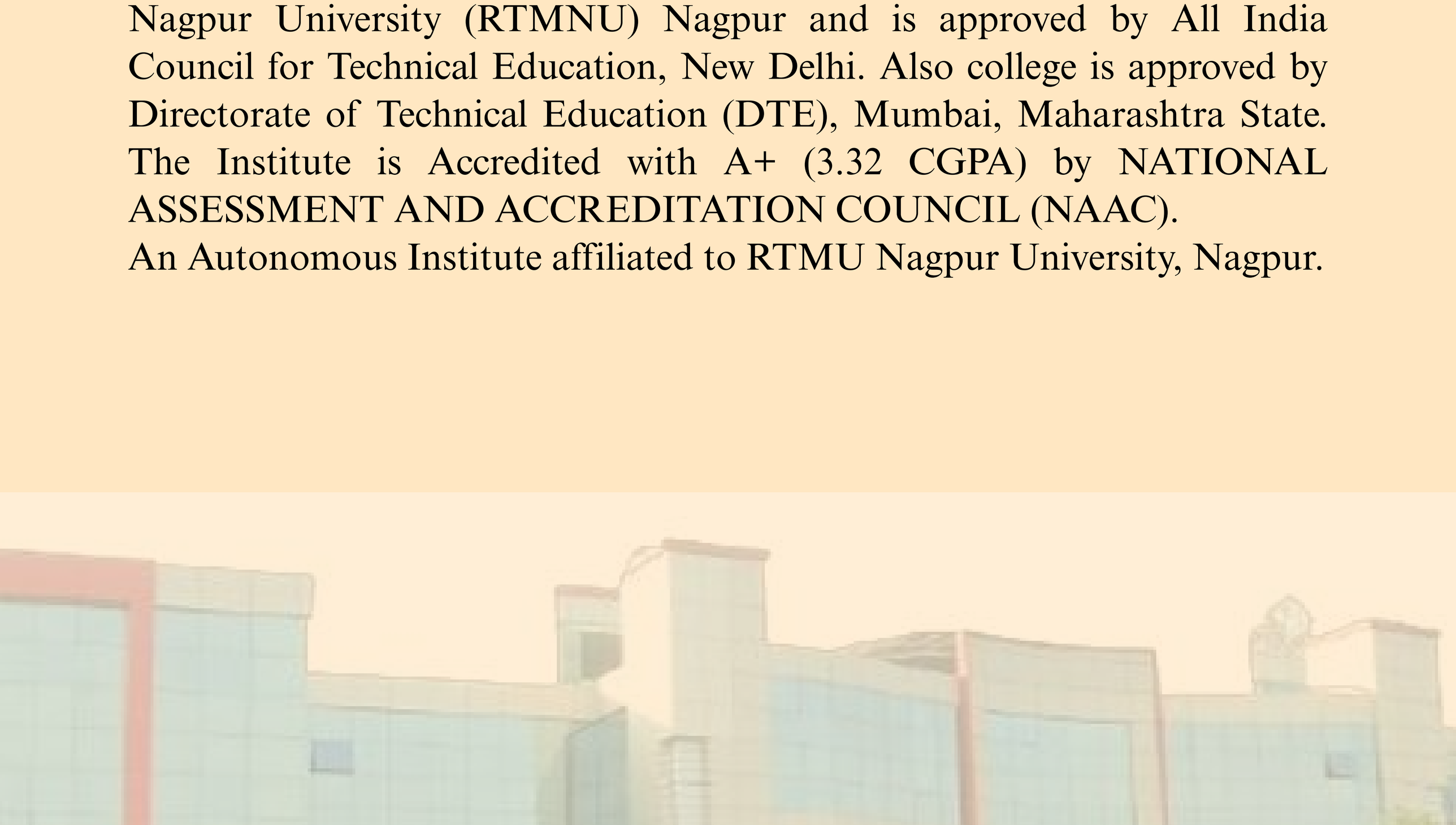
9. Individual & Team Work: Working effectively in teams.

10. Communication: Effective communication skills.

11. Project Management & Finance: Applying engineering principles to projects, including economics.

ABOUT TGPCET

Tulsiramji Gaikwad-Patil College of Engineering and Technology (TGPCET) was established in the year 2007 by Vidarbha Bahu-uddeshiya Shikshan Sanstha (VBSS), a registered society. It is a self financed Private Engineering College, which is affiliated to Rashtrasant Tukadoji Maharaj Nagpur University (RTMNU) Nagpur and is approved by All India Council for Technical Education, New Delhi. Also college is approved by Directorate of Technical Education (DTE), Mumbai, Maharashtra State. The Institute is Accredited with A+ (3.32 CGPA) by NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL (NAAC).
An Autonomous Institute affiliated to RTMU Nagpur University, Nagpur.



ABOUT DEPARTMENT

- The institute offers a B.Tech program in Data Science with an approved intake of students, designed to meet current industry and research demands.

- The department is supported by a team of experienced, well-qualified, and dedicated faculty members with strong expertise in data analytics, machine learning, artificial intelligence, and statistical modeling. The faculty is deeply committed to delivering quality, skill-oriented, and value-based technical education.

- The department library provides access to a wide collection of reference books, textbooks, journals, and online learning resources related to data science, big data, machine learning, and artificial intelligence, serving as a reliable source of academic information for students and faculty.

- The Data Science Department finds applications across diverse domains, including data analytics, business intelligence, healthcare analytics, financial modeling, predictive analytics, artificial intelligence, machine learning, and decision support systems.

- The department is dedicated to education, research, innovation, and overall academic excellence. Various academic and co-curricular programs are conducted to expose students to the latest developments in data science and analytics, thereby enabling them to meet the evolving needs of industry and society.

MANAGEMENT DESK

Dr. Mohan Gaikwad Patil
Chairman,
Gaikwad Patil Group

Mr. Akash Gaikwad-Patil
Vice-Chairman,
Gaikwad-Patil Group

Dr. P. L.Naktode
Principal

Gaikwad Patil Group Dr. Mohan Gaikwad-Patil, with more than 35 years of experience in the education system to his credit, established the Gaikwad-Patil Group of Institutions in Nagpur to cater to the quality education needs of the youth in Vidarbha. His early experience teaching in an engineering college made him acutely aware of the dissonance between engineering education in the country and the requirements of the industry. He therefore began with the dream of starting an engineering college that equips students with knowledge, skills, and attitudes relevant to the industry. That dream has manifested today in the form of an educational group well known in the region for its constant striving to impart quality and industry-relevant education to the students by teaching courses like B.Tech, M.Tech, Architecture, Polytechnic, MBA, MCA, Pharmacy, BAMS, Physiotherapy and Nursing. Hardly in his early forties, Dr. Mohan Gaikwad-Patil is the young and dynamic face of the group. His contagious enthusiasm and unflagging drive are truly inspiring.

Gaikwad Patil Group In a world brimming with challenges, the need for brilliant engineers who can think critically, solve problems creatively, and adapt to a rapidly evolving technological landscape has never been greater. At TGPCET, we are committed to providing an education that goes beyond textbooks. Our curriculum is meticulously crafted to equip students with the technical expertise, soft skills, and design thinking abilities necessary to thrive in the ever-changing engineering landscape. We believe in nurturing well rounded individuals with a strong foundation in ethics, social responsibility, and a passion for making a positive impact on the world. Our state-of-the-art facilities, coupled with a dedicated and experienced faculty, provide a stimulating learning environment that ignites curiosity and encourages exploration. We don't just produce engineers; we empower future leaders, innovators, and entrepreneurs who will shape the world of tomorrow. We are confident that our graduates will be at the forefront of technological advancements, tackling global challenges, and building a future brimming with possibilities.

Tulsiramji Gaikwad Patil College of Engg. It is my privilege to warmly welcome you to the college, which is an autonomous institution, committing to quality education. We work on the principle of “Learn to Grow” With this very inspiring thought, Vidarbha Bahu Uddeshiya Shikshan Sanstha Nagpur has laid a foundation to provide education in the field of engineering to the students to enable them to become good practicingengineers, capable managers and above all a good human being to build a stronger, vibrant and skilled India. We dream that TGPCET should play a definite role in shaping the careers of tomorrow's leaders and developing individuals to have an impact on global development. Looking at our track records, TGPCET has achieved many feathers in terms of consistently good results, placements, and extracurricular activities too. We are continuously in the process of imparting quality education to our budding engineers. This journey is succeeding more gloriously year after year making our Engineers rule the world. Success depends on opportunity. Try to get the maximum from the available resources. I wish best of luck in all your endeavors.

Dr. Pragati Patil
Vice Principal

Tulsiramji Gaikwad Patil College of Engg. Welcome to Tulsiramji Gaikwad Patil College of Engineering and Technology in Nagpur, Maharashtra, a leading educational institution. Inspired by the words of Shri. APJ Abdul Kalam, "Dreams are not those which we see while sleeping, but dreams are those which do not let us sleep,". TGPCET strives for ambitious goals through knowledge acquisition, hard work, and perseverance. Our institution has quickly emerged as one of Maharashtra's premier technical education institutions. We emphasize academic excellence and technical skill development to meet industry demands while instilling values of integrity, morality, and sustainability. At TGPCET, we leverage cutting-edge technology to foster an innovative learning environment, encouraging students to think critically and explore new ideas. Our students engage in national and international competitions to tackle real-world challenges, supported by faculty who stay updated with the latest technologies. Professional organizations like IEEE, CSI, ISTE, SAE-India, and SESI enhance skills through robust platforms. Beyond academics, we promote holistic development through sports, cultural activities, and social initiatives, nurturing responsible citizens. Join TGPCET to excel, innovate, lead in a supportive environment where growth and transformation are limitless.

Prof. Nilesh Nagrale
HOD of CSE Data Science

I am delighted to address the readers through this edition of our departmental newsletter. The Department of Computer Science & Engineering (Data Science) at TGPCET continues its journey of academic excellence, innovation, and holistic development.

In today's rapidly evolving technological landscape, Data Science plays a vital role in shaping intelligent solutions and driving informed decision-making. Our department is committed to equipping students with strong fundamentals, practical exposure, and ethical values to meet industry and societal needs.

This newsletter highlights the academic achievements, technical activities, student accomplishments, and creative initiatives undertaken by our faculty and students. It reflects the collective efforts, enthusiasm, and dedication of our department.

I sincerely appreciate the contributions of the editorial team, faculty members, and students who made this publication possible. I encourage our students to continue exploring, innovating, and striving for excellence in all their endeavors.

EDITORIAL BODY

CONTENTS

Sr. No.	Name of faculty	Title	Name of Journal/ Conference/ Book Chapter where paper submitted or presented	National/ International	Date of Conference/ Date of submission
1	Prof. Abhimanyu Dutonde	Adaptive distributed feature importance aggregation and enhanced genetic multi-criteria selection for scalable high-dimensional data processing	Adevent Trends in Computational Intellengence and Communication Technologies (Scopus)	International	09-Nov-25
2	Prof. Nilesh Nagrale	FaceSnap: Revolutionizing Student Attendance with Advanced Facial Recognition	Algorithms for Intelligent Systems, Springer Nature (Scopus)	International	13-Nov-25
3	Prof. Nilesh Nagrale	3-Pole Waveguide Band Pass filter used for Microwave P2P in 5G Application	IEEE Conference (Scopus)	International	02-Apr-25
4	Prof. Nilesh Nagrale	Integrating Open-Source LLMs with Retrieval-Augmented Generation for Obstetrics and Gynecology Domain	IEEE Conference (Scopus)	International	28-Jul-25
5	Prof. Nilesh Nagrale	A Comprehensive Review on Optimized Comparative Analysis of Radio Modulation Techniques Using Machine Learning Approaches for 5G Services	International Conference On AI-Driven Engineering & Technology AIDCon—2025, paper has been accepted in Scopus conference	International	12 & 13 Dec 2025

6	Dr. Suhashini Chaurasia	Real Time Detection of DDOS Atack on Raspberry PI using Hybrid Algorithm	Indian Patent	National	08-Oct-25
7	Dr. Suhashini Chaurasia	A Novel Framework for Deepfake Image Detection Using Deep Learning Approach	IEEE Conference (Scopus)	International	01-Apr-25
8	Dr. Suhashini Chaurasia	Distributed Denial of Service Attack Detection by Machine Learning Techniques	IEEE Conference (Scopus)	International	01-Apr-25
9	Dr. Suhashini Chaurasia	Optimizing Cloudlet Architectures for Enhanced Cloud Computing Performance	Indian Copyright (Scopus)	National	07-Aug-25
10	Dr. Suhashini Chaurasia	A Framework for Optimizing Resources and Performance Management	Indian Copyright (Scopus)	National	07-Aug-25
11	Dr. Suhashini Chaurasia	Real-Time Vehicle Control Via Edge Cloud Sensor Fusion and CNN based Perceptron (Accepted)	Two revisions submitted to MethodsX Journal (Scopus)	International	07-Jun-25
12	Dr. Suhashini Chaurasia	Addressing Educational Inequities: A Digital Approach for Underprivileged Children	Strategies to Support Underrepresented Minority Students (Scopus)	International	01-Sep-25
13	Dr. Suhashini Chaurasia	Brand Positioning and Competitive Analysis of Jute Bags in the Sustainable Market (Communicated)	Prioritizing Environmental Sustainability in Local Industrial Systems (Scopus)	International	17-Sep-25

14	Dr. Suhashini Chaurasia	Jute bags a catalyst for green solutions A comparative study of environmental benefits (Communicated)	Impacts of Entrepreneurial Innovation in Economic, Social, and Environmental Sustainability (Scopus)	International	11-Oct-25
15	Dr. Suhashini Chaurasia	AI Base Language Learning Platform,	International Journal of Progressive Research in Engineering Management and Science	International	01-Nov-25
16	Prof. Renuka Naukarkar	A Review of AI-Driven Early Detection Systems for Chronic Diseases	AICTE-VAANI Sustainable Energy Management in Context with Climate Change Online ISSN: 3107-4197 and ISBN: 978-81-992021-2-2	National	11-Oct-25

17	Prof. Renuka Naukarkar	Cryptocurrency Dashboard	International Journal Advanced Research in Science and Technology	International	11-Nov-25
18	Prof. Renuka Naukarkar	Design and Implementation of Sales Performance Analysis using Power BI	International Journal of Advanced Research in Science Communication and Technology	International	01-Nov-25
19	Prof. Renuka Naukarkar	A Comparative Review of Global University Ranking Methodologies and Data Analytics Techniques	International Journal of Advanced Research in Science Communication and Technology	International	01-Nov-25
20	Prof. Pooja Pimpalshende	Machine Learning for Genetic Marker Identification in Rare Neurological Disorders: A Comprehensive Review for Early Diagnosis	AICTE-VAANI Sustainable Energy Management in Context with Climate Change Online ISSN: 3107-4197 and ISBN: 978-81-992021-2-2	National	11-Oct-25

21	Prof. Pooja Pimpalshende	Mastering GAN Through Advance Training Strategies and Optimization	Advancement in Multi Agent	International	08-Jul-25
22	Prof. Pooja Pimpalshende	A Python Tkinter-Based Dual-Role Food Ordering and Management System	International Journal of Advanced Research in Science, Communication and Technology	International	04-Nov-25
23	Prof. Pooja Pimpalshende	Federated CNN Model for Acurate Brain Tumor Detection	Copyrights	National	20-Sep-25
24	Prof. Pooja Pimpalshende & Premlata Shahare	Design Patent	Indian Patent	National	11-Nov-25
25	Prof. Ujwala Khartad	Health Assist AI	International Journal of Advanced Research in Science, Communication and Technology	International	1-Nov-25
26	Prof. Ujwala Khartad	Amazon Product Purchase Trend Analysis	International Journal of Advanced Research in Science, Communication and Technology	International	1-Nov-25
27	Prof. Premlata Shahare	Review Paper on Livestock Health Monitoring and Disease Prediction System Using IoT.	AICTE-VAANI Sustainable Energy Management in Context with Climate Change Online ISSN: 3107-4197 and ISBN: 978-81-992021-2-2	National	11-Oct-25
28	Prof. Premlata Shahare	Arduino Based Decentralised Disaster Response Network using Mesh Communication For Emergency Situation	Indian Patent	National	28-Feb-25

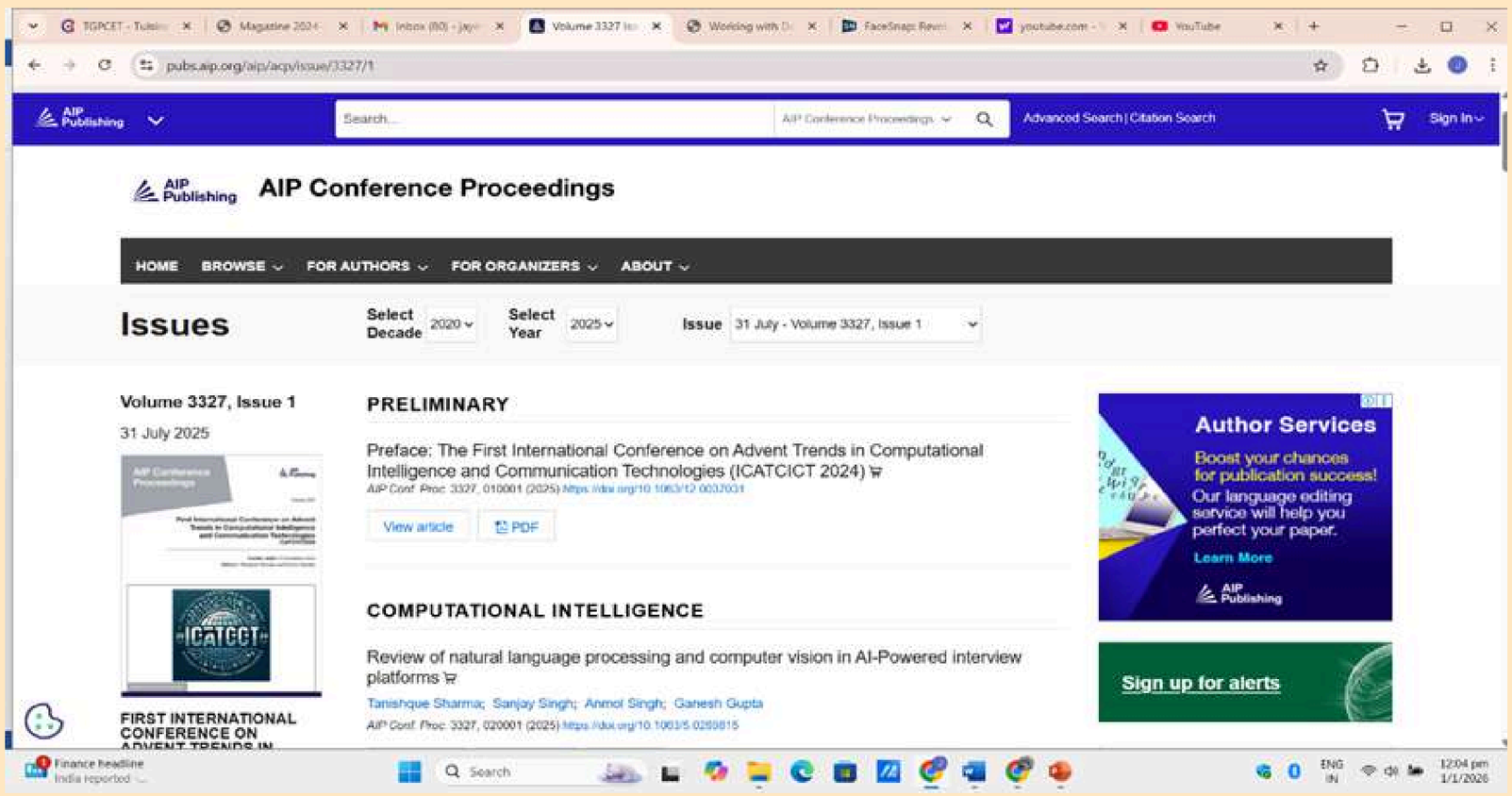
29	Prof. Premlata Shahare	Plants Diseases Detection using Python	International Journal of Advanced Research in Science, Communication and Technology	International	2-May25
30	Prof. Premlata Shahare	Online Tax Management System	International Journal of Progressive Research in Engineering Management and Science	International	5-May-25

RESEARCH ARTICLES

"Adaptive distributed feature importance aggregation and enhanced genetic multi-criteria selection for scalable high-dimensional data processing Technologies"

Authors: Prof. Abhimanyu Dutonde, Department of Data science.

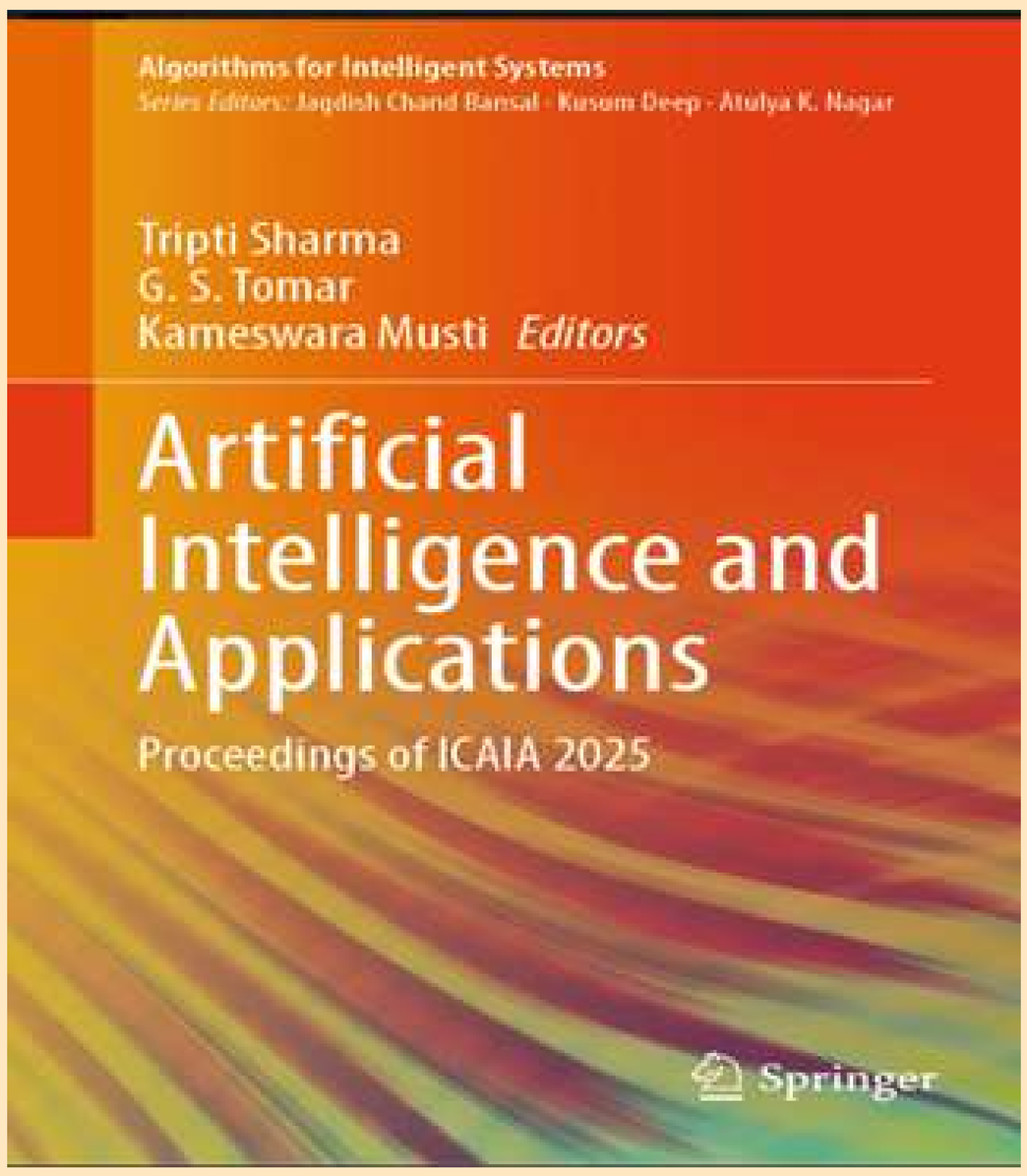
Abstract: In this research paper, we address the integration of Large Language Models (LLM) with Retrieval Augmented Generation (RAG) to enhance clinical decision support and address patient doubts in the Obstetrics and Gynecology (OBGYN) domain. The research mainly tries to explore on How open source LLM's can effectively retrieve and generate the relevant responses in the OBGYN domain. The research methodology includes two components: Data Ingestion, which reads the input text data and stores it to a vector database in an embedded format and Data Retriever-Generation, which retrieves the relevant information from the vector database and use it for accurate response generation. The method includes data collection from esteemed medical databases, LLM model selection, integration with RAG and evaluation of the generated outputs. The methodology uses Bio-Mistral 7B fine-tuned LLM with PubMed Bert embeddings. The LLM responses are evaluated using the Ragas framework, context precision and context recall to measure the performance of retrieval system,faithfulness to measure hallucinations and answer relevancy to measure how relevant the answers are to the input query. The evaluated results confirm that the research has improved the accuracy as well as the contextual relevancy of the information in the OBGYN domain. This research provides a robust architecture for integration of Artificial Intelligence for supporting clinical decision making and information retrieval in specialized medical domains. This research can be extended with the upcoming advancements in the field



“FaceSnap: Revolutionizing Student Attendance with Advanced Facial Recognition “

Authors: Prof. Nilesh Nagrale , Department of Data science.

Abstract :- FaceSnap is an attendance management application for joint presence, and it provides an advanced, vision-based one-shot attendance model utilizing facial recognition along with automatic data storage and retrieval functionality in a user-friendly way. It is an one/many-face detection system, which depends on deep learning network from CNN, YOLO, and high-level machine learning (ML) technologies. Accommodations over 95% can be realized in optimal conditions. Ease of use and scalability of this new capabilities—emotion recognition, low-light image processing improvement, and feature chatbot introduction make this product easy to use and scalable. In an attempt to break a history of an excessive generalization of manual errors, the participants in the control unit (management unit, operational risk), FaceSnap has been able to simply set up the architecture to the needs of modern school attendance programs.



“3-Pole Waveguide Band Pass filter used for Microwave P2P in 5G Application”

Authors: Prof. Nilesh Nagrale , Department of Data science.

Abstract:
The use of 5G applications has become increasingly significant in recent years. Since the Transmitter and Receiver antennas are located many kilometers apart, effective microwave components are required to bridge this distance. The 3-Pole Waveguide Band Pass filter design, which is utilized for microwave Point to Point, was reported in this study. The pass band frequency range in millimeter wave range is 27 GHz to 31 GHz. This filter is helpful because there isn't a regularly used active filter in the millimeter-wave frequency range. In this paper, an optimized Waveguide Band pass filter design with good Insertion loss is presented. This filter will be employed in Point to Point 5G applications. Additionally, the suggested filter exhibits improved return losses of -21.02 dB, -22.03 dB, and -23.07 dB, while the insertion loss does not surpass -0.02 dB in all three bands.

Keyword:-

- **IEEE Keywords**

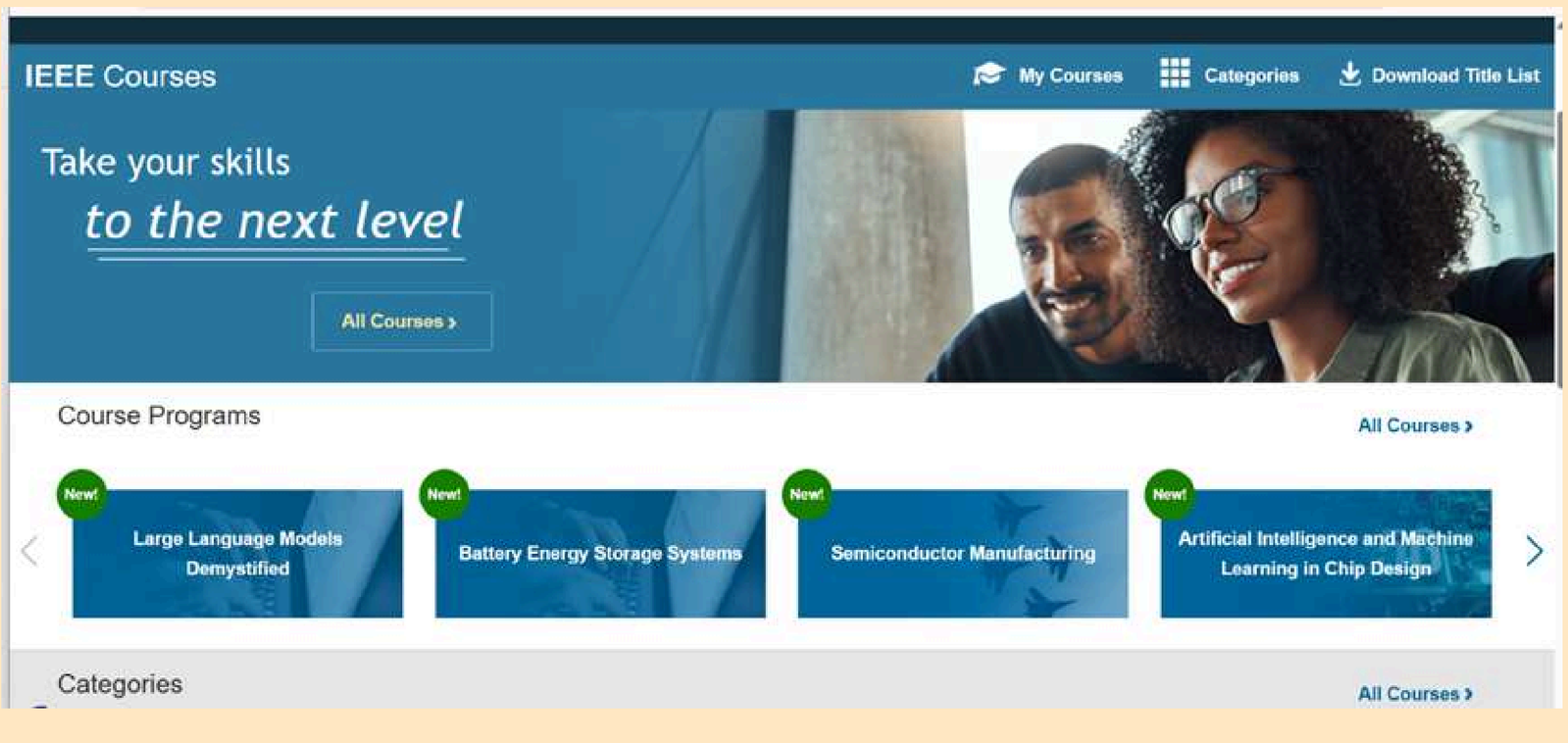
Band-pass filters, Microwave antennas,5G mobile communication, Transmitting antennas, Receiving , Insertion loss, Microwave communication, Waveguide discontinuities, Microwave filters, Millimeter wave communication

- **Index Terms**

5G Applications, Insertion Loss, Filter Design, Return Loss, Receiver Antenna, Pass Band, Low Loss, Internet Of Things, Coupling Coefficient, Resonant Cavity, 5G Networks,Mm-wave Frequencies, Relay System, Low Insertion Loss, H-field

- **Author Keywords**

Microwave P2P link, Band Pass filter, 3-Pole etc.



"Integrating Open-Source LLMs with Retrieval-Augmented Generation for Obstetrics and Gynecology Domain"

Authors: Prof. Nilesh Nagrale, Department of Data science.

Abstract:

In this research paper, we address the integration of Large Language Models (LLM) with Retrieval Augmented Generation (RAG) to enhance clinical decision support and address patient doubts in the Obstetrics and Gynecology (OBGYN) domain. The research mainly tries to explore on How open source LLM's can effectively retrieve and generate the relevant responses in the OBGYN domain. The research methodology includes two components: Data Ingestion, which reads the input text data and stores it to a vector database in an embedded format and Data Retriever-Generation, which retrieves the relevant information from the vector database and use it for accurate response generation. The method includes data collection from esteemed medical databases, LLM model selection, integration with RAG and evaluation of the generated outputs. The methodology uses Bio-Mistral 7B fine-tuned LLM with PubMed Bert embeddings. The LLM responses are evaluated using the Ragas framework, context precision and context recall to measure the performance of retrieval system, faithfulness to measure hallucinations and answer relevancy to measure how relevant the answers are to the input query. The evaluated results confirm that the research has improved the accuracy as well as the contextual relevancy of the information in the OBGYN domain. This research provides a robust architecture for integration of Artificial Intelligence for supporting clinical decision making and information retrieval in specialized medical domains. This research can be extended with the upcoming advancements in the field of Artificial Intelligence and Data Science.

Keywords

- **IEEE Keywords**

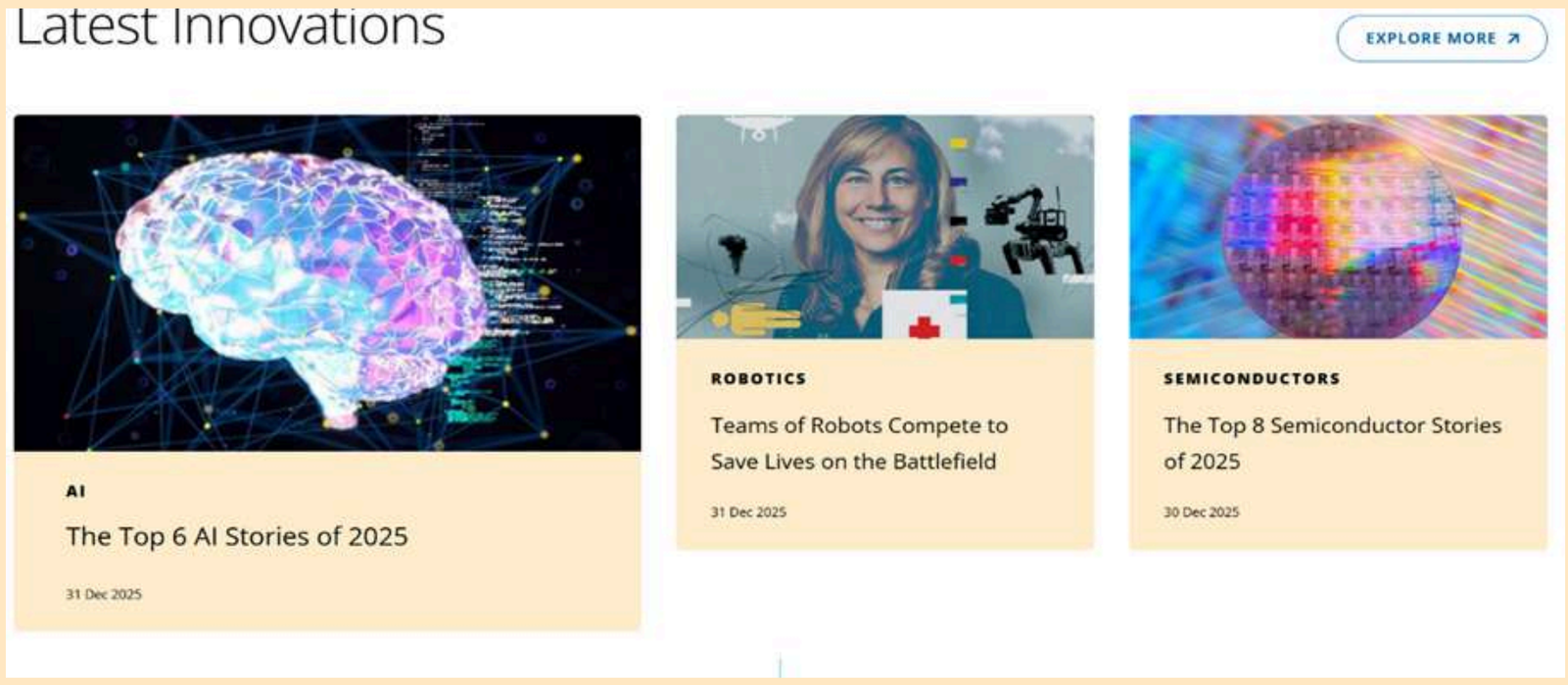
Accuracy, Databases, Large language models,Retrieval augmented generation, Knowledge based systems, Gynecology, Information retrieval, Data models, Vectors, Obstetrics.

- **Index Terms**

Open-source, Obstetrics And Gynecology, Large Language Models, Text Data, Information Retrieval, Relevant Context, Relevant Responses, Field Of Artificial Intelligence, Input Text, Artificial Neural Network, System Architecture, System Quality, Embedding Vectors, Clinical Decision Support Systems, Cloud-based Platform, Quality Of The Input Data, Field Of Obstetrics.

- Author Keywords

Natural Language Processing, Machine Learning, AI in Healthcare, Large Language Models, Text Generation, Information Retrieval, Clinical Decision Support, Retrieval Augmented Generation, OBGYN, Women's Health.



"A Novel Framework for Deepfake Image Detection . Using Deep Learning Approach"

Authors:DR. Suhashini Chaurasia, Department of Data science.

Abstract:

Deepfake, fast growing field in the age of multimedia and AI, have been attracted attention in the recent years. Deep learning algorithms are used to create real digital content which are difficult to distinguish from authentic content. Deepfakes can serve multiples purposes, including educational content, academic research, social entertainment so it spread wrong information, information manipulation, damage to reputation, many frauds. Day to day deepfake crime is increasing. Detection of deepfake is big challenging issue in the digital forensics. A strong approach needs to be created from protecting against the media deepfake. The main work of this paper is to build a efficient framework for deepfake detection. The paper discusses deepfakes, detection techniques, datasets, proposed model. Novel proposed approach has been created that are based on the integration of CNN and VGG16. The deepfake dataset has been used to utilized the network architecture. Proposed model has been achieved the 95% accuracy and 94% precision score. The developed model is superior than the other state of art developed methods.

Keyword:-

- **IEEE Keywords**

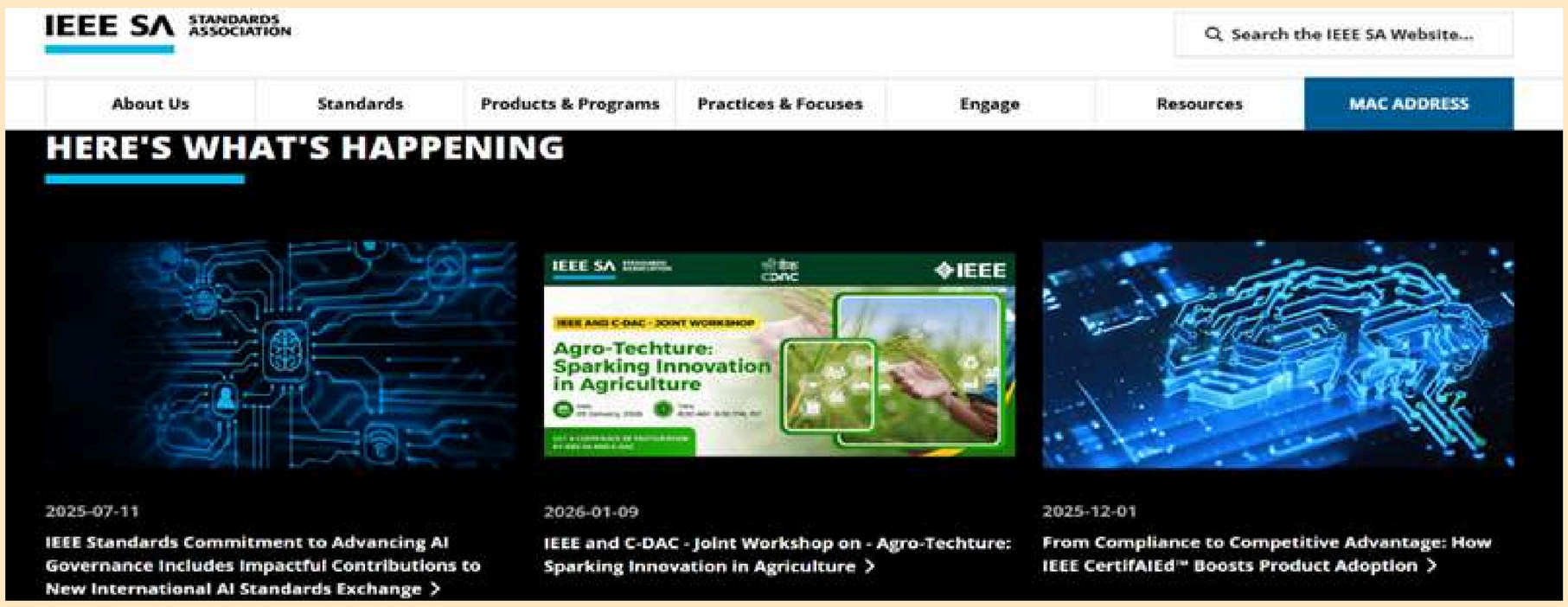
Deep learning, Deepfakes, Analytical models, Accuracy, Image processing, Neural networks, Network architecture, Media, Fraud, Faces.

- **Index Terms**

Deep Learning, Neural Network, Machine Learning, Deep Learning Models, Confusion Matrix, Accuracy Scores, Accurate Parameters, Neural Network Techniques, Blockchain Technology.

- **Author Keywords**

Deepfake, Image Processing, Dataset, Deep Learning.

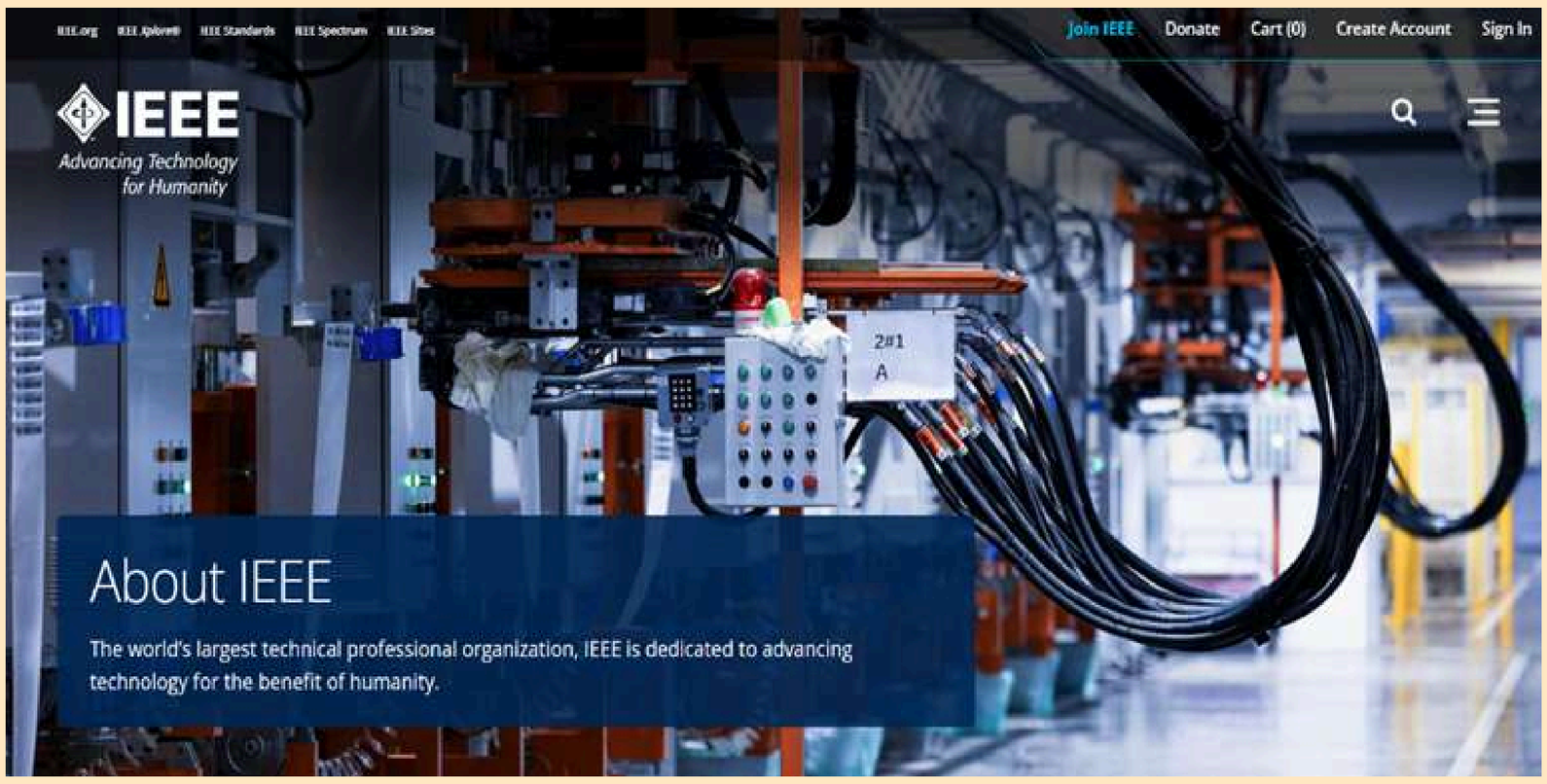


“ Distributed Denial of Service Attack Detection byMachine Learning Techniques”

Authors: DR. Suhashini Chaurasia, Department of Data science.

Abstract:

The exponential expansion of computer networks and the internet makes it clear that there is a chance of being attacked and harmed. In the meantime, one of the most crucial defensive measures against the more complex and frequent network attacks is the intrusion detection and prevention systems (IDSs and IPSs). Due to insufficient datasets, anomaly-based research in intrusion detection systems is plagued by imprecise deployment, analysis, and evaluation. The researchers analyzed a variety of datasets, including DARPA98, KDD99, ISC2012, and ADFA13, to assess how well their suggested intrusion detection and intrusion prevention techniques performed. There are several issues: lack of adequate attack coverage, unrepresentative payloads, and anonymised packet information, insufficient traffic volume and diversity, or a deficiency in feature set and metadata. This study is focused on CICIDS-2017 which is the recently updated IDS dataset that meets real-world requirements and is accessible publicly. In addition to benign network flows and distributed denial of service (DDoS) attacks, it contains seven common attack network flows as well. To provide the optimal combination of features for the identification of the attack category, it also assesses the efficacy of several machine learning (ML) algorithms and network traffic feature sets. Even though various ML techniques like Linear Regression, Random Forests, and Decision Tree can be used, and performed very well, Hybrid Algorithm is designed to get better analysis on dataset.



- **IEEE Keywords**

Accuracy, Machine learning algorithms, Prevention and mitigation, Linear regression, Intrusion detection, Training data, Predictive models, Decision trees, Computer crime,Random forests.

- **Index Terms**

Machine Learning, Machine Learning Techniques, Denial Of Service,Distributed Denial Of Service, Linear Regression, Learning Algorithms,Random Forest, Decision Tree, Detection Techniques, Hybrid Algorithm, Intrusion Detection, Intrusion Detection System.

- **Author Keywords**

DDoS assault, ML, linear regression, decision tree, random forest

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SR. NO	NAME OF PARTICIPATION	TITLE OF WORK	PUBLICATION DETAILS	DATE OF PUBLISHED
1	Dr. Suhasini Chaurasia	Real Time Detection of DDOS Attack on Raspberry PI using Hybrid Algorithm	**Indian Patent**	08-Oct-2025
2	Dr. Suhasini Chaurasia	Optimizing Cloudlet Architectures for Enhanced Cloud Computing Performance	**Indian Copyright (Scopus)**	07-Aug-2025
3	Dr. Suhasini Chaurasia	A Framework for Optimizing Resources and Performance Management	**Indian Copyright (Scopus)**	07-Aug-2025
4	Prof. Pooja Pimpalshende	Federated CNN Model for Accurate Brain Tumor Detection	**Copyright**	20-Sep-2025

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Rule 70 of The Copyright Rules

Extracts from the Register of Copyrights

Application No.: 1035/2025-CO/L Date of Filing: 10/01/2025

This is to certify that a copyright has been registered for the work titled "Optimizing Cloudlet Architectures for Enhanced Mobile Cloud Computing Performance" as disclosed in the below mentioned application in accordance with the provisions of the Copyright Act,1957.

Author / Authors:

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Conditions/ Remarks, if any): N.A.

Date of ROC: 07/08/2025

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Extracts from the Register of Copyrights

Application No.: 1033/2025-CO/L Date of Filing: 10/01/2025

This is to certify that a copyright has been registered for the work titled "A Framework for Optimizing Resources and Performance Management in Cloudlet Computing Environment" as disclosed in the below mentioned applications in accordance with the provisions of the Copyright Act,1957.

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S. / SNO.	Name	Address
1	AMBIKA JAISWAL	FLAT NO 307 AMBER PALACE, COURT CAMP ROAD, AMRAVATI-444602
2	DR. SUHASHINI AWADHESH CHAURASIA	301 UMANG APARTMENT, OPPSITE NMC WATER TANK, NARI RING ROAD, NAGPUR-440026
3	DR. V.M. THAKARE	49, HARSHRAJ COLONY, AMRAVATI-444604

Owner / Owners:

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1	AMBIKA JAISWAL	FLAT NO 307 AMBER PALACE, COURT CAMP ROAD, AMRAVATI-444602
2	DR. SUHASHINI AWADHESH CHAURASIA	301 UMANG APARTMENT, OPPSITE NMC WATER TANK, NARI RING ROAD, NAGPUR-440026

Publishers Details: N.A.

Language of the Work: English

Description of the Work: Power Point presentation

Conditions/ Remarks, if any): N.A.

Date of ROC: 07/08/2025

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Canadian Intellectual Property Office

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20 SEPT / SEP 2025

Titre / Title
FEDERATED CNN MODEL FOR ACCURATE BRAIN TUMOR DETECTION

Catégorie / Category
LITTÉRAIRE / LITERARY

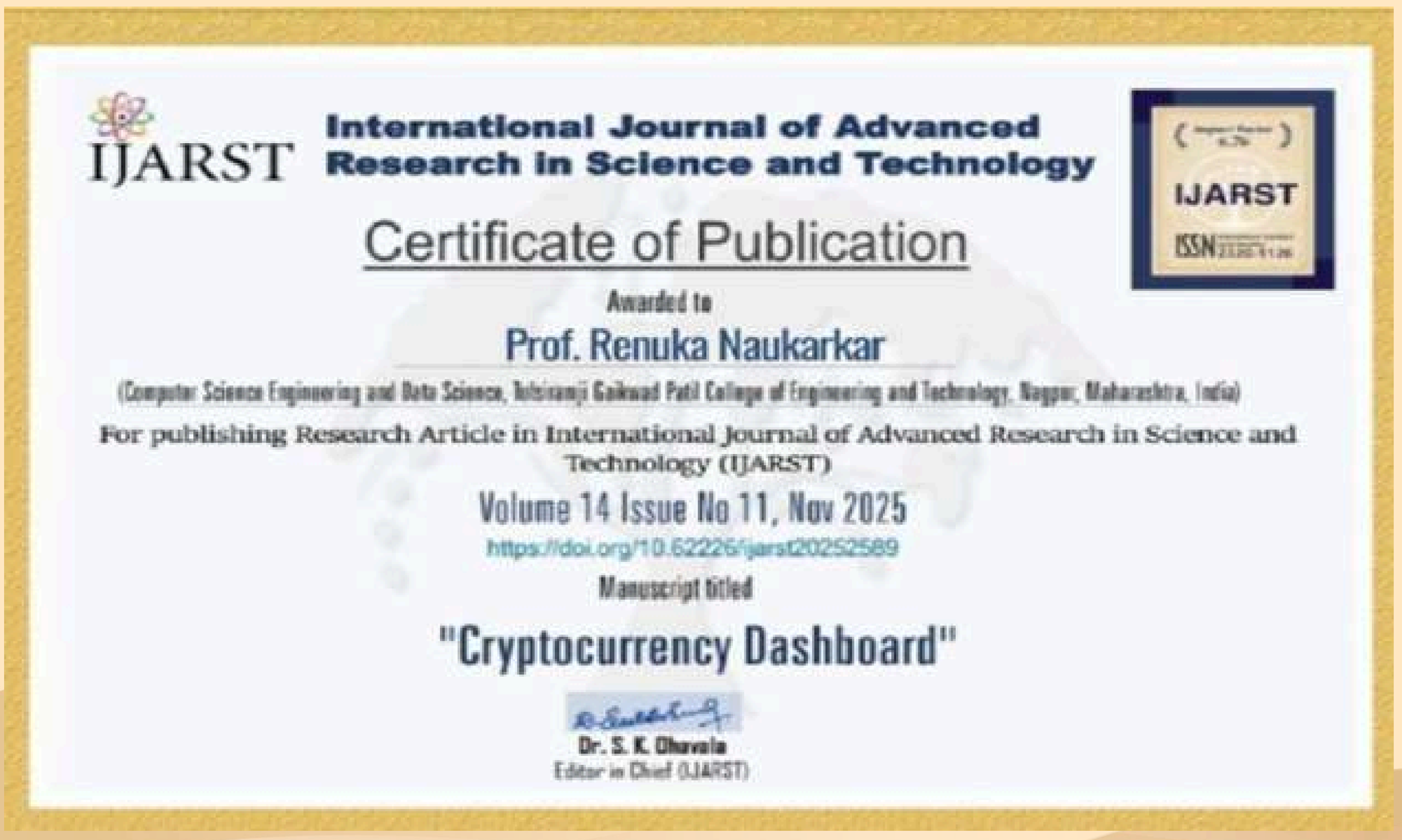
Titulaire(s) / Owner(s)
POOJA PIMPALSHENDE
TULSHIRAMJI GAIKWAD PATIL COLLEGE OF ENGINEERING AND TECHNOLOGY NAGPUR
NAGPUR
INDIA, 441108

MEHNAZ SHEIKH
BALLARPUR INSTITUTE OF TECHNOLOGY,
BAMNI
BALLARSHA
INDIA

JAGDISH PIMPLE
ST VINCENT PALLOTTI COLLEGE OF ENGINEERING & TECHNOLOGY , NAGPUR
NAGPUR
INDIA, 441108

SUNITA JADHAV
RAJARSHI SHAHU MAHAVIDYALAYA, LATUR (AUTONOMOUS)
LATUR
INDIA

SR. NO	Name of Faculty	Title
1	Prof. Renuka Naukarkar	Cryptocurrency Dashboard, International Journal Advanced Research in Science and Technology.
2	Prof. Renuka Naukarkar	Design and Implementation of Sales Performance Analysis using Power BI, International Journal of Advanced Research in Science Communication and Technology.
3	Prof. Renuka Naukarkar	A Comparative Review of Global University Ranking Methodologies and Data Analytics Techniques.
4	Prof. Pooja Pimpalshende	A python Tkinter-Based Dual-Role Food Ordering and Management System, International Journal of Advanced Research in Science, Communication and Technology.



IJARST

International Journal of Advanced Research in Science and Technology

IJARST ISSN

Certificate of Publication

Awarded to

Prof. Renuka Naukarkar

(Computer Science Engineering and Data Science, Yeshwantrao Gaikwad Patil College of Engineering and Technology, Nagpur, Maharashtra, India)

For publishing Research Article in International Journal of Advanced Research in Science and Technology (IJARST)

Volume 14 Issue No 11, Nov 2025

https://doi.org/10.62226/ijarst20252589

Manuscript titled

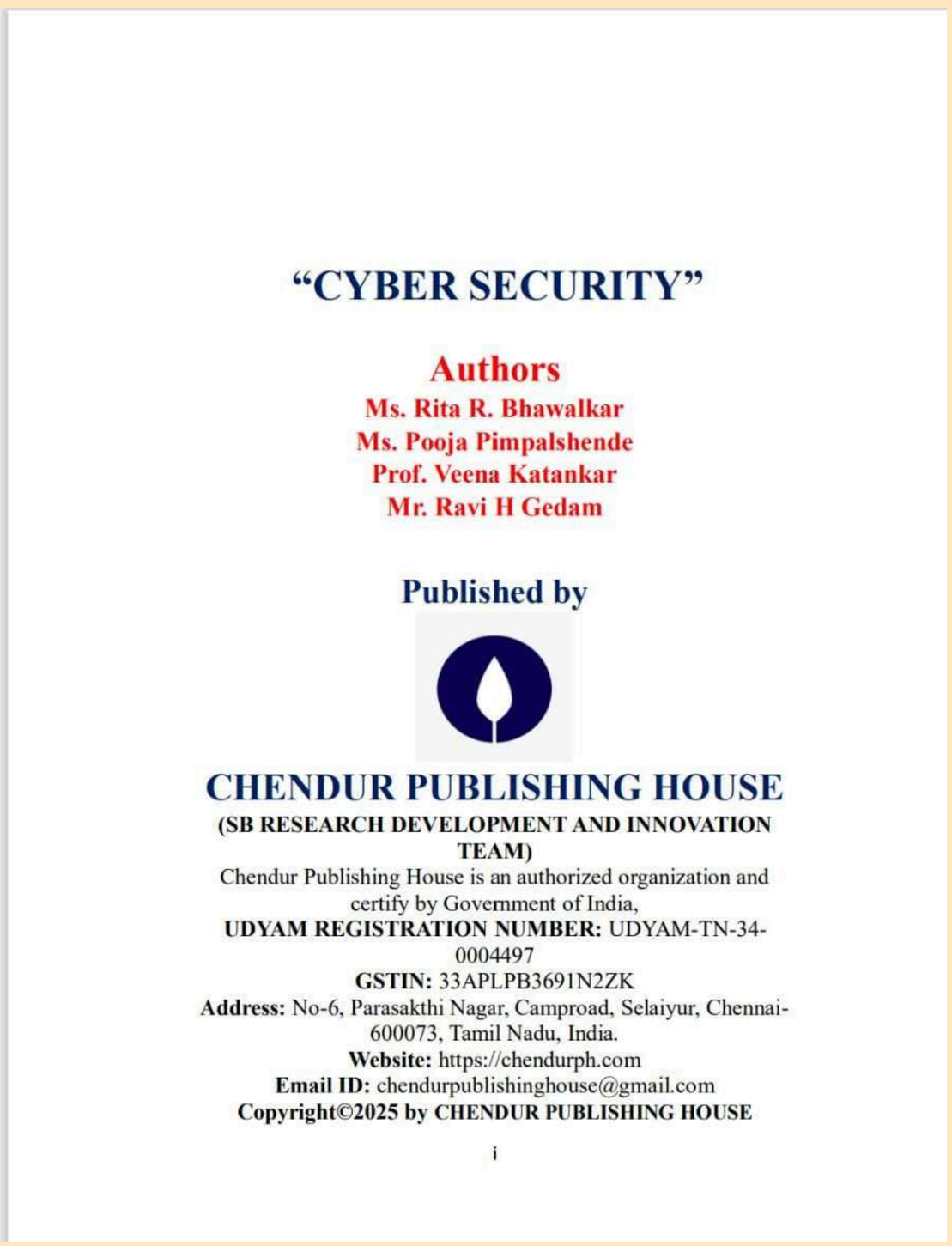
"Cryptocurrency Dashboard"

Dr. S. K. Dhavale

Editor in Chief (IJARST)

BOOK PUBLISHED BY FACULTIES

Name Of Faculty	Title	Published On
Prof. Pooja Pimpalshende	Cyber Security	September 2025



"CYBER SECURITY"

Authors

Ms. Rita R. Bhawalkar
Ms. Pooja Pimpalshende
Prof. Veena Katankar
Mr. Ravi H Gedam

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EDU-SKILL ACHEIVEMENT

SR.NO	Student Name	Title	Duration
1	Yash Dhanesh Deshmukh	**Data Engineering in Virtual-Internship.**	Oct 25 - Dec 25
2	Laxmi Kailas Buradkar	**Ethical Hacking Virtual- Internship.**	Oct 25 - Dec 25
3	Keshav Ravishankar Chelmeti	**Data-Science Masters Virtual-Internship.**	Oct 25 - Dec 25
4	Ram Pradip Dhote	**AI-ML Virtual-Internship.**	Oct 25 - Dec 25
5	Harshal Rajeshwar Mogre	**GEN-AI Virtual-Internship.**	Oct 25 - Dec 25
6	Dhammdip Dipak Lokhande	**GEN-AI Virtual-Internship.**	Oct 25 - Dec 25
7	Vedant Nanoti	**Python Full-Stack Developer Virtual Internship**	Oct 25 - Dec 25
8	Sarang Kachare	**GEN-AI Virtual Internship**	Oct 25 - Dec 25

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Student ID :STU67237361b6db41730376545

INTERNSHIP GRADE E

GRADE- O (Outstanding):90-100 | E (Excellent):80-89 | A (Very Good):70-79 | B (Good): 60-69 | C (Fair): 50-59 | D (Average): 40-49 | P (Pass): 30-39 | F (Fail): Below 30

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Student ID :STU65868fbdba9271703317437

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GRADE- O (Outstanding):90-100 | E (Excellent):80-89 | A (Very Good):70-79 | B (Good): 60-69 | C (Fair): 50-59 | D (Average): 40-49 | P (Pass): 30-39 | F (Fail): Below 30

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Student ID :STU6586fc256b5ee1703345189

INTERNSHIP GRADE O

GRADE- O (Outstanding):90-100 | E (Excellent):80-89 | A (Very Good):70-79 | B (Good): 60-69 | C (Fair): 50-59 | D (Average): 40-49 | P (Pass): 30-39 | F (Fail): Below 30


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Tulsiramji Gaikwad-Patil College of Engineering and Technology
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Shubhajit Jagadev
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Certificate ID :9dc298a13cbe6cea6a1c13cbd586d57e
Student ID :STU6587f7a5db6421703409573
INTERNSHIP GRADE
O
GRADE- O (Outstanding):90-100 | E (Excellent):80-89 | A (Very Good):70-79 | B (Good): 60-69 | C (Fair): 50-59 | D (Average): 40-49 | P (Pass): 30-39 | F (Fail): Below 30


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This is to certify that
Dhammdip Dipak Lokhande
Tulsiramji Gaikwad-Patil College of Engineering and Technology
has successfully completed the 10-week
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May this Internship learning propel you toward a bright and successful career.
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EduSkills
Certificate ID :11e45faa4acc7e30cc951defa24eb191
Student ID :STU6586d2cb8030f1703334603
INTERNSHIP GRADE
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GRADE- O (Outstanding):90-100 | E (Excellent):80-89 | A (Very Good):70-79 | B (Good): 60-69 | C (Fair): 50-59 | D (Average): 40-49 | P (Pass): 30-39 | F (Fail): Below 30


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VEDANT PRAVIN NANOTI
Tulsiramji Gaikwad-Patil College of Engineering and Technology
has successfully completed the 10-week
Python Full Stack Developer Virtual Internship
During October - December 2025
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Student ID :STU678a6de7b4b191737125351
INTERNSHIP GRADE
O
GRADE- O (Outstanding):90-100 | E (Excellent):80-89 | A (Very Good):70-79 | B (Good): 60-69 | C (Fair): 50-59 | D (Average): 40-49 | P (Pass): 30-39 | F (Fail): Below 30


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SARANG AJAY KACHARE
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has successfully completed the 10-week
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Chief Executive Officer (CEO)
EduSkills
Certificate ID :677668bd32ad776be21a2340c5251deb
Student ID :STU658539ebc25581703229931
INTERNSHIP GRADE
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GRADE- O (Outstanding):90-100 | E (Excellent):80-89 | A (Very Good):70-79 | B (Good): 60-69 | C (Fair): 50-59 | D (Average): 40-49 | P (Pass): 30-39 | F (Fail): Below 30

NPTEL CERTIFICATE

SR. NO	Name of Faculty	Title
1	Prof. Pooja Pimpalshende	**Introduction to Machine Learning**
2	Prof. Pooja Pimpalshende	**Machine learning and Deep Learning fundamentsls and applications.**
3	Prof. Pooja Pimpalshende	**Artificial intelligence concepts and techniques.**
4	Prof. Premlata Sahare	**Research Methodology**
5	Prof. Premlata Sahare	**Patent drafting for begineers.**
6	Prof. Alex Dhoke	**Design and Implementation of Human Computer interfaces.**

Elite

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कौशल भारत-कुशल भारत

This certificate is awarded to

POOJA PIMPALSHENDE

for successfully completing the course

Machine Learning and Deep Learning - Fundamentals and Applications

with a consolidated score of **60** %

Online Assignments	21.85/25	Proctored Exam	38.5/75

Total number of candidates certified in this course: **1755**

Jul-Oct 2025

(12 week course)

Dr. Salil Kashyap
Coordinator, Centre for Educational Technology,
IIT Guwahati

Indian Institute of Technology Guwahati

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Roll No: NPTEL25EE181S1264402611 To verify the certificate No. of credits recommended: 3 or 4

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Skill India
कौशल भारत-कुशल भारत

This certificate is awarded to

POOJA PIMPALSHENDE

for successfully completing the course

Introduction to Machine Learning

with a consolidated score of **53** %

Online Assignments	22.92/25	Proctored Exam	30/75

Total number of candidates certified in this course: **9715**

Jul-Sep 2025

(8 week course)

Prof. Haimanti Banerji
Coordinator, NPTEL
IIT Kharagpur

Indian Institute of Technology Kharagpur

FREE ONLINE EDUCATION swayam शिक्षित भारत, उन्नत भारत

Roll No: NPTEL25CS149S642901237 To verify the certificate No. of credits recommended: 2 or 3

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Skill India
कौशल भारत-कुशल भारत

This certificate is awarded to

POOJA PIMPALSHENDE

for successfully completing the course

Artificial Intelligence: Concepts and Techniques

with a consolidated score of **61** %

Online Assignments	24.69/25	Proctored Exam	35.94/75

Total number of candidates certified in this course: **6785**

Jul-Oct 2025

(12 week course)

Prof. L. Umanand
NPTEL Coordinator & Chair, Centre for Continuing Education, IISc Bangalore

Indian Institute of Science Bangalore

FREE ONLINE EDUCATION swayam शिक्षित भारत, उन्नत भारत

Roll No: NPTEL25CS159S1164402472 To verify the certificate No. of credits recommended: 3 or 4

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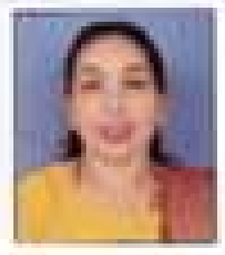

This certificate is awarded to

PREMLATA BUDDHAMITRA SHAHARE

for successfully completing the course

Research Methodology

with a consolidated score of **66** %

Online Assignments	25/25	Proctored Exam	41.12/75

Total number of candidates certified in this course: **4905**

Prof. Andrew Thangaraj
Chair
Centre for Outreach and Digital Education, IITM

Jul-Sep 2025

(8 week course)

Prof. Vignesh Muthuvijayan
NPTEL Coordinator
IIT Madras

Indian Institute of Technology Madras

swayam

Roll No: NPTEL25GE66534900689 To verify the certificate No. of credits recommended: 2 or 3

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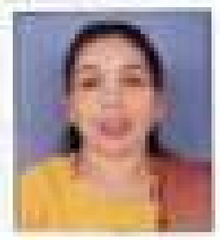

This certificate is awarded to

PREMLATA BUDDHAMITRA SHAHARE

for successfully completing the course

Patent Drafting for Beginners

with a consolidated score of **73** %

Online Assignments	18.83/25	Proctored Exam	54/75

Total number of candidates certified in this course: **1074**

Prof. Andrew Thangaraj
Chair
Centre for Outreach and Digital Education, IITM

Jul-Aug 2025
(4 week course)

Prof. Vignesh Muthuvijayan
NPTEL Coordinator
IIT Madras

Indian Institute of Technology Madras

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Roll No: NPTEL25IH05117344301404 To verify the certificate No. of credits recommended: 1 or 2

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Skill India
कौशल भारत-कुशल भारत

This certificate is awarded to

ALEX PRADIP DHOKE

for successfully completing the course

Design & Implementation of Human-Computer Interfaces

with a consolidated score of **54** %

Online Assignments	23.75/25	Proctored Exam	30/75

Total number of candidates certified in this course: **5421**

Jul-Oct 2025
(12 week course)

Dr. Salil Kashyap
Coordinator, Centre for Educational Technology,
IIT Guwahati

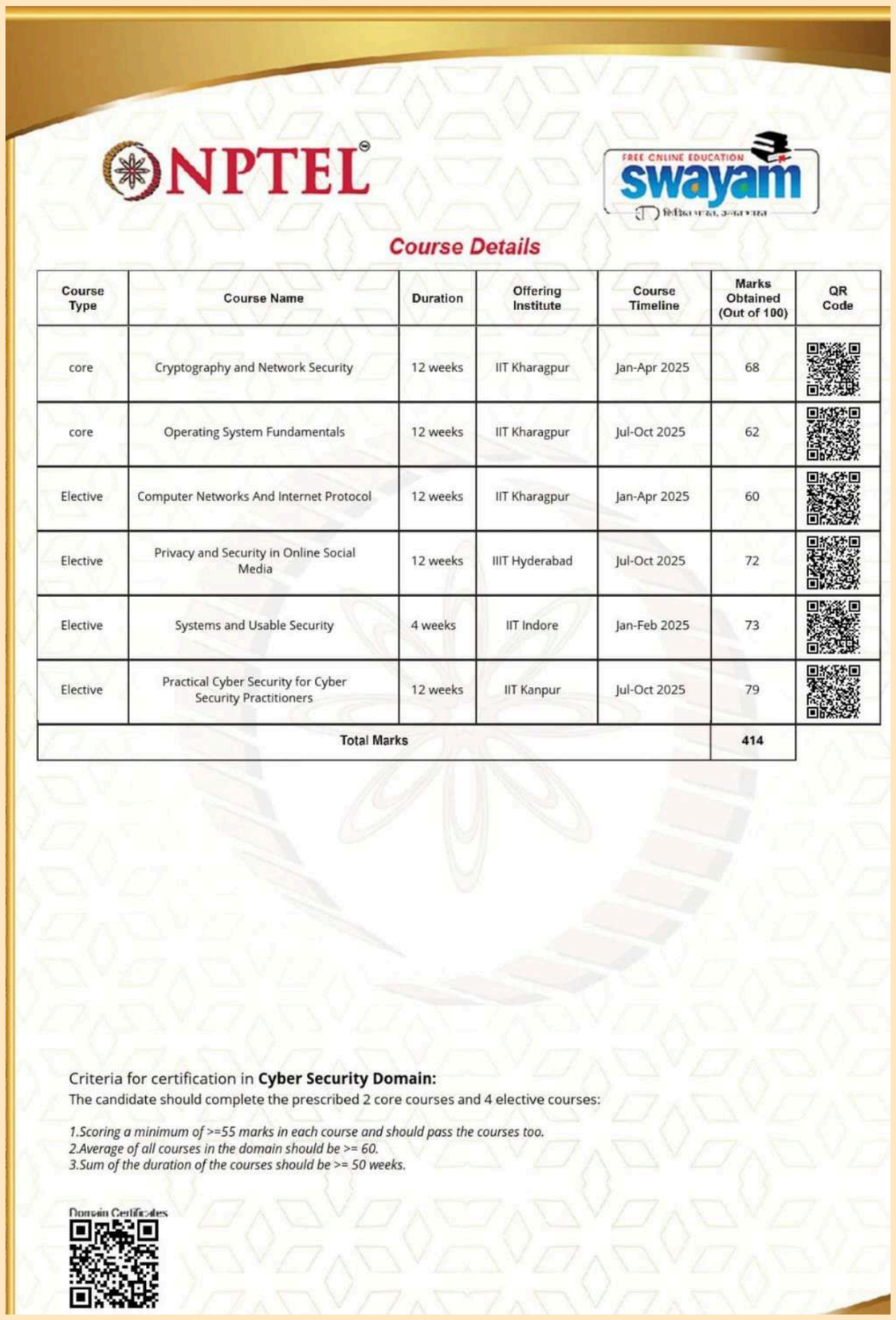
Indian Institute of Technology Guwahati

FREE ONLINE EDUCATION swayam

Roll No: NPTEL25CS135S1164400019 To verify the certificate No. of credits recommended: 3 or 4

STUDENT NPTEL

SR. NO	Name Of Student	Title
1	Devanshi Shingade	**Cyber Security**



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FREE ONLINE EDUCATION swayam

Course Details

Course Type	Course Name	Duration	Offering Institute	Course Timeline	Marks Obtained (Out of 100)	QR Code
core	Cryptography and Network Security	12 weeks	IIT Kharagpur	Jan-Apr 2025	68	
core	Operating System Fundamentals	12 weeks	IIT Kharagpur	Jul-Oct 2025	62	
Elective	Computer Networks And Internet Protocol	12 weeks	IIT Kharagpur	Jan-Apr 2025	60	
Elective	Privacy and Security in Online Social Media	12 weeks	IIIT Hyderabad	Jul-Oct 2025	72	
Elective	Systems and Usable Security	4 weeks	IIT Indore	Jan-Feb 2025	73	
Elective	Practical Cyber Security for Cyber Security Practitioners	12 weeks	IIT Kanpur	Jul-Oct 2025	79	
Total Marks					**414**	

Criteria for certification in **Cyber Security Domain:**
The candidate should complete the prescribed 2 core courses and 4 elective courses:

1.Scoring a minimum of >=55 marks in each course and should pass the courses too.
2.Average of all courses in the domain should be >= 60.
3.Sum of the duration of the courses should be >= 50 weeks.

Domain Certificates

FACULTY ACHEIVEMENT

Name of Faculty	Title	Issued Date
Prof. Pooja Pimpalshende	Best Paper Award	10th- 11th Oct 2025

DTE Code: 4151 www.tgpcet.com

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10th - 11th October 2025

SEMCCC– 2K25

SUSTAINABLE ENERGY MANAGEMENT in the CONTEXT of CLIMATE CHANGE

International Journal of Multidisciplinary Global Research ISSN: 3107-4197and ISBN: 978-81-992021-2-2

BEST PAPER AWARD

This is to certify that Prof. / Dr. / Mr. / Ms. Pooja Pimpalshende of Tulsiramji Gaikwad Patil College of Engineering and Technology , Nagpur has presented a paper titled "Machine Learning for Genetic Marker Identification in Rare Neurological Disorders:" and his / her paper is adjudged as the best paper in the **National Conference on "Sustainable Energy Management in the Context of Climate Change"** sponsored by All India Council for Technical Education (AICTE) VAANI and organized by the Department of Basic Sciences and Humanities, held on **10th - 11th October 2025.**

सर्वोत्कृष्ट शोधनिबंध पुरस्कार

हे प्रमाणित करण्यात येते की प्रा. / डॉ. / श्री. / सौ. _____ यांना _____ या विषयावर " _____ " **दिनांक १० व ११ ऑक्टोबर २०२५** रोजी सादर केलेले शोधनिबंध हे **"हवामान बदलाच्या संदर्भात शाश्वत ऊर्जा व्यवस्थापन" या राष्ट्रीय परिषदेत** सर्वोत्कृष्ट शोधनिबंध म्हणून निवडण्यात आले आहे. ही परिषद ऑल इंडिया कौन्सिल फॉर टेक्निकल एज्युकेशन (ए. आय. सी. टी. ई.) वाणी प्रायोजित केले होते .

DR. KANCHAN R. GOPAL, COORDINATOR, SEMCCC-2025, समन्वयक

DR. PRAGATI PATIL-BEDEKAR, CONVENER, SEMCCC-2025, संयोजक

DR. PREMANAND NAKTODE, PRINCIPAL, TGPCET, प्राचार्य

16 Jan 2026, 4:

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pooja

INTERNSHIP

SR. NO	NAME OF STUDENT	MOBILE NO. PHONE	NAME OF ORGANIZATION WITH ADDRESS
1	**Ayushi Dadhare**	8767407874	Cluster computing, Wardha Road,Gajanan Nagar, Nagpur
2	**Devanshi Shingade**	7077503311	Eastern Stevedores Pvt. Ltd.,BJ14, BJB Nagar, Bhubaneshwar, Odisha. 751014
3	**Nidhi Meshram**	8180962625	Eastern Stevedores Pvt. Ltd.,BJ14, BJB Nagar, Bhubaneshwar, Odisha. 751014
4	**Sumanshu kawale**	8766471208	Buildsoft IT solution Pvt.Ltd., Nagpur
5	**Gunjan Pote**	9822534189	SS Infotech Pvt. Ltd. Ramdaspeth Nagpur
6	**Adarsh Bhange**	9373955239	Hasten Solutions, RMS Colony Durga Nagar
7	**Shantanu Dandage**	9960395651	Cluster computing, Wardha Road,Gajanan Nagar, Nagpur
8	**Sunil Suryavanshi**	9767716318	Cluster computing, Wardha Road,Gajanan Nagar, Nagpur
9	**Janhavi Chaudhari**	9767716318	VNIT Nagpur
10	**Dnyaneshwar More**	9767716318	VNIT Nagpur
11	**Lavanya Lokhande**	8830516602	SS Infotech Pvt Ltd. Ramdaspeth Nagpur

SR. NO	NAME OF STUDENT	MOBILE NO. PHONE	NAME OF ORGANIZATION WITH ADDRESS
12	**Shruti Kamble**	9689254238	Cluster computing, Wardha Road,Gajanan Nagar, Nagpur
13	**Yash Borade**	9325785021	Vexon Private Limited, Mumbai.
14	**Aditi Malode**	9623617032	SS Infotech Pvt Ltd .Ramdaspeth , Nagpur
15	**Shubham Ambore**	9307522151	Yhills Pvt Ltd.B-88, B-black, Noida UP
16	**Shubham Kuttarmare**	9370185380	Yhills Pvt Ltd.B-88, B-black, Noida UP
17	**Himanshu Dhenge**	9322913858	Hesten Solutions, 37/1,RMS Colony Durga Nagar,Nagpur
18	**Rushikesh Badge**	7058255162	COJAG Technology ,Rajiv Nagar somalwada ,Nagpur
19	**Samruddhi Bhamburkar**	9067264885	Yhills Pvt Ltd.B-88, B-black, Noida UP
20	**Pranay Langewar**	8975876437	Cluster computing, Wardha Road,Gajanan Nagar, Nagpur
21	**Aailesh Jadhao**	9322895099	Cluster computing, Wardha Road,Gajanan Nagar, Nagpur
22	**Pravin Shankarpurkar**	8806445268	Cluster computing, Wardha Road,Gajanan Nagar, Nagpur
23	**Bhawana Dibbe**	7499048492	Cluster computing, Wardha Road,Gajanan Nagar, Nagpur

SR. NO	NAME OF STUDENT	MOBILE NO. PHONE	NAME OF ORGANIZATION WITH ADDRESS
24	**Megha Nikhare**	8767864158	SS Infotech Pvt Ltd. Ramdaspeth Nagpur
25	**Shweta Patil**	7498681824	Cluster computing, Wardha Road,Gajanan Nagar, Nagpur
26	**Sujal Nimsarkar**	9356455296	IT Campus Guru, Mate Square, Nagpur
27	**Bhagesh Neware**	7888162273	S2P Edutech Private Limited,Rajendra Nagar, Hingana road , nagpur
28	**Trupti Patil**	8080058543	Edversity by Livetech Skills ,Nagpur
29	**Utkarsh Patil**	9518926594	Buildsoft IT solution Pvt. Ltd., Nagpur
30	**Atharva Bhoyar**	7620861790	Buildsoft IT solution Pvt. Ltd., Nagpur
31	**Omkar Sarakate**	7499972334	Cluster computing, Wardha Road,Gajanan Nagar, Nagpur
32	**Vaibhav Bhandurkar**	9175072085	ThunderCube Pvt. Ltd. Nagpur
33	**Purva Hiwase**	9309503457	RentMart IT Services pvt. Ltd. , Nagpur
34	**Ritesh Sonparote**	9322048185	Kiran Academy, Nagpur

SR. NO	NAME OF STUDENT	MOBILE NO. PHONE	NAME OF ORGANIZATION WITH ADDRESS
35	**Krishna Chikte**	8999719543	Elite Associate Group, Sadar, chaoni, Nagpur
36	**Paresh Girse**	9764284236	Kiran Academy, Nagpur
37	**Prathmesh Thakur**	9307522151	Elite Associate Group, Sadar, chaoni, Nagpur
38	**Chaggan Rakhade**	9325349366	ICEICO Technology,Nagpur

DEPARTMENT HIGHLIGHTS

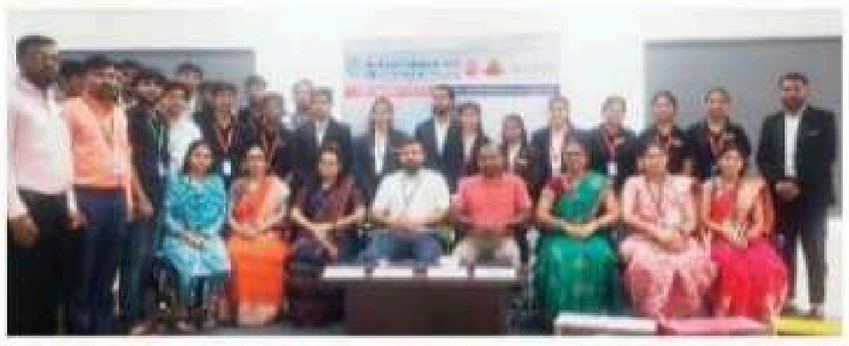
FORUM INSTALLATION 2025

टीजीपीसीईटी के सीएसई-डेटा साइंस विभाग ने अंतर्दृष्टिपूर्ण विशेषज्ञ सत्र के साथ छात्र फोरम वेदा को पुनः स्थापित किया।

दैनिक देशप्रदेश केसरी

कंप्यूटर विज्ञान और अभियांत्रिकी – डेटा साइंस विभाग, टीजीपीसीईटी, नागपुर द्वारा दिनांक 26 जुलाई 2025 को डॉ. विजय भाटकर सभागृह में छात्र मंच रवेदार का पुनः स्थापना समारोह आयोजित किया गया। यह आयोजन 2025–26 शैक्षणिक सत्र के शैक्षणिक, व्यावसायिक और सह-पाठ्यक्रम गतिविधियों के औपचारिक शुभारंभ का प्रतीक था।

समारोह के मुख्य अतिथि इन्फोसिस, नागपुर के सीनियर एसोसिएट कंसल्टेंट श्री पराग धवन थे, जिन्होंने रडेटा साइंस और आर्टिफिशियल इंटेलिजेंस में नवीनतम प्रवृत्तियाँर विषय पर विशेषज्ञ व्याख्यान प्रस्तुत किया। उनके सत्र ने छात्रों को उद्योग में हो रहे परिवर्तनों, उभरती तकनीकों और AI एवं डेटा साइंस के वास्तविक अनुप्रयोगों की गहन समझ प्रदान की। उन्होंने इंडस्ट्री रेडीनेस पर



जोर देते हुए शोध के वर्तमान दिशा-निर्देशों और करियर संभावनाओं पर प्रकाश डाला, जिससे शिक्षण और व्यावसायिक दुनिया के बीच की खाई को पाटा जा सके।

कार्यक्रम की शुरुआत ज्ञान के प्रतीक दीप प्रज्वलन से हुई, इसके बाद एक मधुर प्रार्थना और विभागाध्यक्ष द्वारा स्वागत भाषण प्रस्तुत किया गया। विभागाध्यक्ष ने रवेदार मंच की दूरदृष्टि को साझा किया और आगामी शैक्षणिक वर्ष की योजना प्रस्तुत की। तकनीकी सत्र के साथ-साथ, इस अवसर पर विभागीय समाचार पत्रिका और तकनीकी पत्रिका का विमोचन भी किया गया, जिसमें छात्रों और संकाय सदस्यों की अनुसंधान और नवाचार में उपलब्धियों को दर्शाया गया। द्वितीय, चतुर्थ और षष्ठम सेमेस्टर के शैक्षणिक टॉपर्स को सम्मानित किया गया, और मंच के नव-निर्वाचित सदस्यों को बैज प्रदान किए गए। रनॉलेज नॉक आउट प्रतियोगितार के विजेताओं को भी डेटा साइंस, AI, प्रोग्रामिंग और उभरती तकनीकों में उत्कृष्ट प्रदर्शन के लिए सम्मानित किया गया। रवेदार का पुनः स्थापना समारोह नेतृत्व, नैतिक मूल्यों, प्रभावी संप्रेषण एवं सक्रिय सहभागिता को बढ़ावा देने के उद्देश्य से आयोजित किया गया। यह मंच रचनात्मकता को प्रेरित करने, शैक्षणिक उत्कृष्टता को बढ़ावा देने और समग्र विकास का मार्ग प्रशस्त करता है।

इस आयोजन का समन्वय प्रो. पूजा पिंपलशेंडे और प्रो. प्रेमलता शाहरे द्वारा किया गया। हम जीपीजी के चेयरमैन डॉ. मोहन गायकवाड़-पाटिल, जीपीजीआय के कोषाध्यक्ष प्रो. संदीप गायकवाड़-पाटिल, टीजीपीसीईटी के प्राचार्य डॉ. प्रेमानंद नक्तोडे, उप-प्राचार्य डॉ. प्रगति पाटिल, विभागाध्यक्ष प्रो. अभिमन्यु दुतोंडे, डीन एकेडमिक्स डॉ. अनुप गाडे और डीन IQAC प्रो. ऋतेश वानपुरकर का धन्यवाद करते हैं, जिन्होंने हमें इस मंच पुनः स्थापना समारोह को सफलतापूर्वक आयोजित करने का अवसर प्रदान किया।

SOCIAL MEDIA COVERAGE

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