



**Parvathaneni Brahmaya
SIDDHARTHA COLLEGE OF ARTS & SCIENCE**

Siddhartha Nagar, Vijayawada – 520 010

(An Autonomous College under the Jurisdiction of Krishna University, Re – Accredited at 'A+' by NAAC
– III Cycle, College with Potential for Excellence (Awarded by the UGC), ISO 9001 – 2015



DEPARTMENT OF DATA SCIENCE AND ARTIFICIAL INTELLIGENCE

Congratulations to the students of III [B.Sc.](#), AIML for submitting their study papers to the 2nd International Conference on Recent Innovations in Computer Science and Technology, ICRICT-2024 at Parvathaneni Brahmaya Siddhartha College of Arts & Science. We would like to extend our gratitude to Dr. T S Ravi Kiran for his unwavering support to the students. Well done!



Congratulations to the students who have submitted the study papers for 2nd International Conference on Recent Innovations in Computer Science and Technology, ICRICT-2024 at [Parvathaneni Brahmaya Siddhartha College of Arts & Science](#) A total of TWO papers submitted by the students of I [B.Sc.](#), Hons. AI.

Narendra

[hashtag#Sandeep](#)

[hashtag#VasuDeva](#) Rao

[hashtag#Shameema](#)

[hashtag#Sampurna](#)



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Congratulations to the students who have submitted the study papers for 2nd International Conference on Recent Innovations in Computer Science and Technology, ICRICT-2024 conducted by [Parvathaneni Brahmaya Siddhartha College of Arts & Science](https://www.pbscas.ac.in/) . A total of FOUR papers submitted by the students of II [B.Sc.](https://www.pbscas.ac.in/) , AIML.

[gayatri](#)

[hashtag#Divyasri](#)

[hashtag#Deepthi](#)

[hashtag#chitra](#)

[hashtag#UmmeFatima](#)

[hashtag#Hemasundar](#)

[hashtag#Rutvik](#)

[hashtag#DrUdayaSriKompalli](#)

[hashtag#SudheerP](#)

[hashtag#Sridharkavuri](#)

[hashtag#GopiRayala](#)



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DEPARTMENT OF DATA SCIENCE AND ARTIFICIAL INTELLIGENCE

Congratulations 🎉 to the students of 3 B.Sc., AIML [Parvathaneni Brahmayya Siddhartha College of Arts & Science Gandham Mani Saketh](#) ,[Abdul Faheem](#) , presented a paper on "Predicting Sleeping Disorders - A Health care " authors [DrKompalli Udaya Sri](#) , Dr. T.S.Ravi Kiran, [Gandham Mani Saketh Abdul Faheem](#) at International Conference on Innovative Computing and Communications @ICICC-2024, New Delhi. Thank you for the support of Director V Babu Rao Sir, Principal Dr Meka Ramesh Sir and management for encouraging the students to represent the college at National Level. Interacted with [Rema Thareja](#) mam, the author of Programming in C, Python, Data structures etc.

సాక్షి



నుంచే భక్తులు దర్శించుకుని పూజలు నిర్వహించారు. పొంగలి నైవేద్యం సమర్పించి మొక్కుబడులు చెల్లించారు. గ్రామాల నుంచి డప్పు వాయిద్యాలతో చలువ కావిళ్లతో భక్తులు ఊరేగింపుగా తరలివచ్చి అమ్మవారిని దర్శించుకుని భక్తిపారవశ్యం చెందారు. సీఐ హబీబ్ బాషా, ఎస్సై గణేష్ కుమార్లు తిరునాళ్ల బందోబస్తును పర్యవేక్షించారు.



అలయం వద్ద భక్తజన సందోహం

ఉదయశ్రీకి యూనివర్సల్ ఇన్నోవేటర్స్ లీడర్ షిప్ అవార్డు

నున్న(విజయవాడరూరల్): విజయవాడ పర్వతనేని బ్రహ్మయ్య సిదార్థ కాలేజ్ ఆఫ్ ఆర్ట్స్ అండ్ సైన్స్ ప్రొఫెసర్ డాక్టర్ కొంపల్లి ఉదయశ్రీకి యూనివర్సల్ లీడర్ షిప్ అవార్డు(యూఐఎల్ ఏ-2024) -మల్టీ డిస్టిన్షినరీ ఉమెన్ రీసెర్చ్ ఇన్ ఆస్ట్రాలజీ అవార్డు లభించింది. ఎన్ఐటీ-పాట్నా, యూనివర్సిటీ ఆఫ్ వల్లడోలిడ్-స్పెయిన్ సంయుక్తంగా యూనివర్సిటీ ఆఫ్ ఢిల్లీ పరిధిలోని షహీద్ సుఖదేవ్ కాలేజ్ ఆఫ్ బిజినెస్ స్టడీస్ ఆవరణలో ఏడవ ఇంటర్నేషనల్ కాన్ఫరెన్స్ ఆన్ ఇన్నోవేటివ్ కంప్యూటరింగ్, కమ్యూనికేషన్(ఐసీఐసీసీ-2024) కార్యక్రమం జరిగింది. కళాశాల ప్రిన్సిపాల్ పూనం వర్మ, ఎన్ఐటీ-కురక్షేత్ర ప్రొఫెసర్ ఏకే సింగ్ షీల్డ్, ప్రశంసాపత్రాన్ని డాక్టర్ ఉదయశ్రీకి అందజేశారు. మల్టీ డిస్టిన్షినరీ



డాక్టర్ ఉదయశ్రీకి అవార్డు, ప్రశంసాపత్రాన్ని అందజేస్తున్న ప్రిన్సిపాల్ రమేష్

ఉమెన్ రీచెర్చిగా ఇన్నోవేటర్స్ లీడర్ షిప్ అవార్డు అందుకున్న డాక్టర్ ఉదయశ్రీని డైరెక్టర్ బాబురావు, ప్రిన్సిపాల్ డాక్టర్ మేకా రమేష్లు అభినందించారు.



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PB Siddhartha College students excel at ICICC-2024

PNS ■ VIJAYAWADA

PB Siddhartha Arts and Science College Director V Babu Rao and Principal Dr M Ramesh appreciated their college students, who excelled in the International Conference on Innovative Computing and Communication - 2024 (ICICC – 2024) that was held at the Sukhdev College of Business Studies under the supervision of the University of Delhi.

The 7th International Conference was supervised by the supervision of the University of Delhi, which was organized by the National Institute of Technology (NIT), Patna and the University of Valladolid, Spain.





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DEPARTMENT OF DATA SCIENCE AND ARTIFICIAL INTELLIGENCE

Congratulations 🎉 🎉 to all the participants of II [B.Sc](#) AIML and I [B.Sc.](#), Hons.(AI) for actively participating in IAC-2024 Conclave with theme ECOTECH [Parvathaneni Brahmaya Siddhartha College of Arts & Science](#)

PPT:

KL Narendra Kumar - I [B.Sc.](#), Hons.(AI)

V Harshitha.- I [B.Sc.](#), Hons.(AI)

Yasaswi Choudhary- I [B.Sc.](#) , Hons.(AI)

Project:II [B.Sc.](#), AIML

M.Manjula Gowri

Umme Fathima

M Tejaswi

S. Hemasree

K Chitra Nandini

Deepthi Mukunda

M.M.S Gayatri

D. Divya Sri

Congratulations 🎉 🎉 to Umme Fathima and Manjula for creating Chatbot related to College Admissions and securing First 🏆 place under Junior category in project.



A



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Department of Data Science and Artificial Intelligence

30-day Internship by AIMERS, Mr. D. SaiSatish, CEO, Indian Servers

The Department of Data Science and Artificial Intelligence at PB Siddhartha College of Arts and Science, would like to extend our heartfelt gratitude for your exceptional guidance and support throughout our internship at [AIMER Society - Artificial Intelligence Medical and Engineering Researchers Society](#). Your mentorship has been pivotal in our journey of exploring and working on projects involving AI, ML, DL, and IoT. The knowledge and skills we have acquired under your leadership are invaluable and have significantly contributed to our academic and professional growth.

We are particularly thankful for your patience, encouragement, and the insightful feedback you provided, which motivated us to strive for excellence. The hands-on experience and the learning environment you fostered have been incredibly enriching.

Thank you once again for your unwavering support and for being such an inspiring mentor. We look forward to applying the learnings from this internship in our future endeavors.

[DrKompalli Udaya Sri](#)

HOD,

Department of Data Science and Artificial Intelligence,

[Parvathaneni Brahmayya Siddhartha College of Arts & Science](#), Vijayawada



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Congratulations to Our
2nd B.Sc. AI & ML Interns!

**Department of
Data Science & Artificial Intelligence**

**AIMERS – ARTIFICIAL INTELLIGENCE
MEDICAL AND ENGINEERING
RESEARCHERS SOCIETY**

We are proud to announce the successful completion of the AI Internships by our 2nd B.Sc. AI & ML students at AIMERS Society (Artificial Intelligence Medical and Engineering Researchers Society) under the mentorship of Mr. D. Sai Satish.

Dr. Udayasri Kompalli,
HoD, Data Science and Artificial Intelligence



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Congratulations to Our
2nd B.B.A. – B.A. Interns!

Department of BBA Business Analytics

**AIMERS – ARTIFICIAL INTELLIGENCE
MEDICAL AND ENGINEERING
RESEARCHERS SOCIETY**

We are proud to announce the successful completion of the AI Internships by our 2nd B.B.A. – B.A. students at AIMERS Society (Artificial Intelligence Medical and Engineering Researchers Society) under the mentorship of Mr. D. Sai Satish.

Dr. Udayasri Kompalli,
HoD, Data Science and Artificial Intelligence



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DEPARTMENT OF DATA SCIENCE AND ARTIFICIAL INTELLIGENCE

A study paper, titled "Ink Meets AI: Handwritten Digit Detection through Neural Network Paradigms," was presented at the 5th International Conference on Data Analytics and Management (ICDAM-2024). This conference was organized by [London Metropolitan University](#), London, UK, in association with WSG University, Bydgoszcz, Poland, Portalegre Polytechnic University, Portugal, SGGW Management Institute, and BPIT, GGSIPU, Delhi, and took place on 14th - 15th June 2024.

I am incredibly grateful for the guidance and support from my mentor, [DrKompalli Udaya Sri](#), Head of the Department, Data Science and Artificial Intelligence, [Parvathaneni Brahmayya Siddhartha College of Arts & Science](#). Her mentorship has been invaluable in all my endeavors.

A big thank you to my friends and co-authors, [Gandham Mani Saketh](#) and [Anche Sainath](#), for their collaboration and support throughout this journey.

We are grateful to have our paper selected for publication in the Elsevier SSRN series.

This achievement marks the beginning of my journey in AI research. With the confidence and encouragement gained, I am determined to undertake more innovative projects and deliver exceptional work in the field of Data Science.

Here's to more research and breakthroughs in Data Science and AI! 🚀



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ICDAM-2024



INTERNATIONAL CONFERENCE ON DATA ANALYTICS & MANAGEMENT (ICDAM-2024)

Certificate

This is to certify that **Prof. /Dr. / Mr. / Ms. Abdul Faheem** is a presenter/co-author of the paper titled **Ink Meets AI: Handwritten Digit Detection through Neural Network Paradigms** presented at the **5th International Conference on Data Analytics and Management (ICDAM-2024)**, organized jointly by London Metropolitan University, London, UK in association with the WSG University, Bydgoszcz, Poland, Europe, Portalegre Polytechnic University, Portugal, Europe, SGGW Management Institute & BPIT, GGSIPU, Delhi on **14th – 15th June 2024**.


Prof. (Dr.) Bal Virdee

London Metropolitan University, UK
Convener


Prof. (Dr.) Abhishek Swaroop

Bhagwan Parshuram Institute of Technology, India
Publication Chair

Hearty Congratulations to Ms. [Sumasri Ummadisetti](#) , III [B.Sc](#)

. (AI-ML) who got selected as Associate Analyst in [Deloitte India](#) with CTC of ₹3.8 LPA. Presenting Deloitte welcome goodies kit to Ms. Sumasri by Dr. [Ramesh Meka](#), Principal, Mr. [Baburao vemuri](#), Director, Mr. [Sridhar Kavuri](#), Training & Placement Officer and [DrUdaya Sri](#), Asst. Professor in Computer Science.



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**Kudos to
Deloitte.
Champion 2024**

**Ms. U. Sumasri
B.Sc. (AI-ML)**



**CTC
₹3.8
LPA**



P.B.Siddhartha College of Arts & Science, Vijayawada
Department of Data Science and Artificial Intelligence
AI Model Development Contest - AIMERS

Objective: The objective of the AI Model Development Contest is to empower students to come up with efficient and effective ways of development of Generative AI models to showcase their exceptional skills and creativity in the AI Model Development Contest.

The students innovative contributions, dedication, and hard work have significantly enriched the field of AI and machine learning. The project showcased outstanding problem-solving abilities and a deep understanding of AI model development, setting a high standard for excellence.

The Artificial Intelligence Medical & Engineering Researchers Society recognizes the vast potential of AI in the medical and agriculture domains. The presence and active participation in these areas are essential, aligning with one of our society's main agendas. This achievement marks the first step towards a higher goal of serving millions of people through your innovations in AI across various domains, including medical and agriculture. We appreciate your commitment to pushing the boundaries of technology and your enthusiasm for continuous learning and innovation. The achievements in this contest reflect their potential to make significant contributions to the AI community in the future.

▪ **AI ChatBot for Restaurants is the project exposed in the competition conducted by Artificial Intelligence Medical & Engineering Researchers Society, Vijayawada.**

▪ The students of P.B.Siddhartha college of Arts & Science have participated in the competition conducted by AIMER Society on 28th June, 2024. The UG students of P.B.Siddhartha College demonstrated to Design & Prototype Innovative Apps.


▪ Two students from the college have created Innovative AI powered Chatbots which can give lots of information regarding the questions raised by the user.


▪ **Innovation 1 :** Chatbot to support the customer at a restaurant by simplifying the task of viewing the menu, placing the order, and payment of bill can be done at a single click. This innovative project has gained the success out of 140+ submissions with its creativity and support to smart order processing system.


▪ Built with Dialogflow, FastAPI, and MySQL, this chatbot streamlines the cafeteria experience by taking orders, tracking them, and displaying menu prices. From enhancing efficiency to providing a seamless user experience, our bot is designed to make ordering at the college cafeteria easier and more fun!


▪ **Innovation 2 :** Chatbot to support any user for getting the information regarding the temperature, play music, take notes, take a picture, create a video basing on the instructions given by the user. This innovative project also has gained much importance and usefulness with the usage and feedback of the users.


▪ Leo is a versatile and intelligent chatbot with a wide range of features:


 Climate Condition: Get real-time weather updates.


 News: Stay informed with the latest news.


 Cricket Scores: Keep track of live cricket scores.


 Making Notes: Quickly jot down and save important notes.

 Playing Songs: Play your favorite tunes on command.

 Translation: Translate text to different languages effortlessly.

 Image Capture: Capture images directly through Leo.

 Generate Images: Create new images based on text input.

 Call Your Contacts: Leo can initiate calls and deliver preset messages to your contacts. Personalized messages coming soon! And many more exciting features! This project is developed by Team [hashtag#InnoUdayVoyagers: Abdul Faheem Gandham Mani Saketh](#)

We are ML interns at AIMER Society - Artificial Intelligence Medical and Engineering Researchers Society, working under the guidance of:

Mr. D. Sai Satish, CEO of [Indian Servers - Software Development Company](#) and AIMERS, [DrKompalli Udaya Sri](#), HoD of Data Science and Artificial Intelligence, [Parvathaneni Brahmaya Siddhartha College of Arts & Science](#)

Number of Students Participated: UG : 2 year , 3 year

Coordinator: Dr.K.Udaya Sri, Assistant professor, Department of Computer Science, P.B.Siddhartha College of Arts & Science, Vijayawada.

Outcome: The outcome of such an event will drive positive change in the digital world by empowering students to tackle deceptive design practices and promote ethical innovation.

| S.No | Presentation | Participants | Class |
|------|--|-----------------|--------------------------------|
| 1 | Chatbot for Restaurants https://www.linkedin.com/posts/chitra-samunuri-713810258_chatbot-techinnovation-dialogflow-activity-7202521649315815424-1pO7?utm_source=share&utm_medium=member_android | Chitra Sumanuri | UG B.Sc.- AIML – 2yr |
| 2 | Chatbot for General information https://www.linkedin.com/posts/abulfaheem011_innodayvoyagers-aicompetition-chatbotchallenge-activity-7204439593767620608-BQxP?utm_source=share&utm_medium=member_android | Abdul Faheem | UG B.Sc.- AIML – 3 yr |

| Faculty Name | Role in Chatbot Competition |
|------------------|-----------------------------|
| Dr.K.Udaya Sree | Mentor |
| Dr. D Sai Satish | Guide |



Certificate of Appreciation

This is to certify that

Samunuri Chitra Nandini

has demonstrated exceptional skills and creativity in the

AI Model Development Contest

Your innovative contributions, dedication, and hard work have significantly enriched the field of AI and machine learning. Your project showcased outstanding problem-solving abilities and a deep understanding of AI model development, setting a high standard for excellence.

The **Artificial Intelligence Medical & Engineering Researchers Society** recognizes the vast potential of AI in the medical and agriculture domains. Your presence and active participation in these areas are essential, aligning with one of our society's main agendas. This achievement marks the first step towards a higher goal of serving millions of people through your innovations in AI across various domains, including medical and agriculture. We appreciate your commitment to pushing the boundaries of technology and your enthusiasm for continuous learning and innovation. Your achievements in this contest reflect your potential to make significant contributions to the AI community in the future.

Congratulations on this well-deserved recognition and best wishes for your future endeavours!

Certificate ID:AIMERS - AIModelContest-001 ; Date: June 28th - 2024

Sai Satish

D Sai Satish
President, AIMER Society

AIMERS – Artificial Intelligence Medical & Engineering Researchers Society

www.AimerSociety.com | info@AimerSociety.com | Mobile : +91 - 9618222220



ARTIFICIAL INTELLIGENCE MEDICAL AND ENGINEERING RESEARCHERS SOCIETY

Certificate of Appreciation

This is to certify that

Abdul Faheem

has demonstrated exceptional skills and creativity in the

AI Model Development Contest

Your innovative contributions, dedication, and hard work have significantly enriched the field of AI and machine learning. Your project showcased outstanding problem-solving abilities and a deep understanding of AI model development, setting a high standard for excellence.

The **Artificial Intelligence Medical & Engineering Researchers Society** recognizes the vast potential of AI in the medical and agriculture domains. Your presence and active participation in these areas are essential, aligning with one of our society's main agendas. This achievement marks the first step towards a higher goal of serving millions of people through your innovations in AI across various domains, including medical and agriculture. We appreciate your commitment to pushing the boundaries of technology and your enthusiasm for continuous learning and innovation. Your achievements in this contest reflect your potential to make significant contributions to the AI community in the future.

Congratulations on this well-deserved recognition and best wishes for your future endeavours!

Certificate ID:AIMERS - AIModelContest-056 ; Date: June 28th - 2024

D Sai Satish
President, AIMER Society

AIMERS - Artificial Intelligence Medical & Engineering Researchers Society

www.AimerSociety.com | info@AimerSociety.com | Mobile : +91 - 9618222220



Certificate of Appreciation from AIMERS



Inbox



info@aimersociety.com 11:07 PM

to me



Namaste **Abdul Faheem**

We are pleased to inform you that you have been awarded a Certificate of Appreciation for your outstanding performance in the AI Model Development Contest organized by the Artificial Intelligence Medical & Engineering Researchers Society (AIMERS).

Your innovative contributions and dedication have significantly enriched the field of AI and machine learning. We recognize the vast potential of AI in the medical and agriculture domains, and your presence and active participation are essential to achieving our society's main agendas.

Please find your Certificate of Appreciation attached to this email. We hope this achievement marks the first step towards a higher goal of serving millions of people through your innovations in AI across various domains, including medical and agriculture.

You can download your certificate using the following link:

<https://aimersociety.com/wp-content/uploads/2024/06/AIModel-9391122345.pdf>

Once again, congratulations on this well-deserved recognition. We look forward to your continued contributions to the AI community.

Best regards,

Sai Satish

President

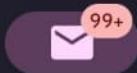
Artificial Intelligence Medical & Engineering Researchers Society (AIMERS)

9618222220

info@AimerSociety.com



Reply



Leo is designed for a diverse group of users who will benefit from its wide range of capabilities. Students can use Leo for note-taking, staying updated with the weather, and enjoying some entertainment. Professionals will find Leo helpful for quick news updates, managing notes, and checking weather forecasts. Cricket enthusiasts can rely on Leo for real-time cricket scores and updates. While music lovers can enjoy their favorite songs on demand. General users will appreciate Leo's everyday assistance, including jokes, weather forecasts, image generation, and comprehensive question-answering. Leo's talkative nature makes it a friendly companion for anyone looking for an engaging and helpful AI assistant.



A screenshot of a mobile application interface for 'pb-siddhartha-cafeteria'. The interface features a dark background with white and yellow text and illustrations. On the left, a white chat window displays a conversation about ordering food. The main area shows a menu with items like 'Coffee', 'Bakery', and 'Hot Drinks'. There are illustrations of a coffee cup, a teapot, and a sandwich. The text 'It's time for Coffee' is prominently displayed in the center.

pb-siddhartha-cafeteria

Google

Ok, starting a new order. You can say things like "I want two pizzas and one mango lassi". Make sure to specify a quantity for every food item. Also, we have only the following items on our menu: Pav Bhaji, plain dosa, Masala dosa, Lassi, Onion Dosa, veg rice, Bhaji, Rava Dosa, Samosa, puran Poli, sprite, badam milk, sun chapati, paneer vada, idli, pulpy orange, kurukure, tea, coffee, thump-up

I need 2 samosa and one lassi

Coffee

Bakery

It's time for Coffee

Hot Drinks

Desserts



**Parvathaneni Brahmaya
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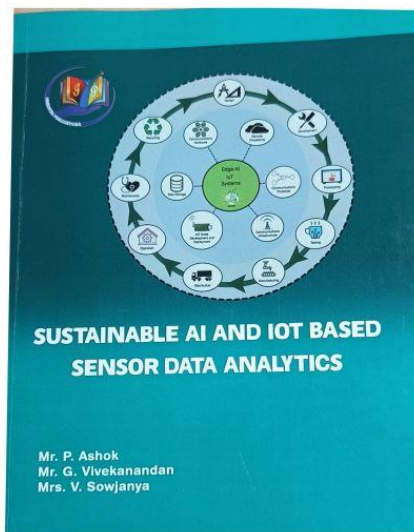
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DEPARTMENT OF DATA SCIENCE AND ARTIFICIAL INTELLIGENCE

The students of III B.Sc.(AIML) , Abdul Faheem, G. Mani Saketh , Dr. K. udayaSri have published a Book Chapter in Sustainable AI and IOT Based Seonsor Data Analytics.

Mitigating Class imbalance in Machine Learning and Deep Learning – A comparative Study.



| | | |
|----|---|-----------|
| 11 | Mitigating Class Imbalance Challenges in Machine Learning & Deep Learning - A Comparative Analysis Dr. UdayaSri Kompalli, Abdul Faheem, Gandham Mani Saketh | 99 - 133 |
| 12 | Comparative Analysis of Automatic Digital Modulation Classification Using Deep Learning K. Sudha Rani, P. Sowjanya, A.Chandramouli | 134 - 146 |

Mitigating Class Imbalance Challenges in Machine Learning & Deep Learning - A Comparative Analysis

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Abstract
In the current era of Artificial Intelligence and Machine Learning, this research addresses the critical issue of class imbalance in diverse datasets, with a particular focus on classification tasks. The study evaluates the performance of both traditional Machine Learning and modern Deep Learning models on imbalanced data, emphasizing metrics like precision, recall, F1-score, and ROC-AUC while acknowledging the limitations of accuracy. Rigorous analysis encompasses various imbalance mitigation techniques, including under-sampling, oversampling, SMOTE, and ensemble methods. Comparative analyses, utilizing real-world data, reveal the strengths and weaknesses of these techniques. The research extends beyond machine learning to deep learning, comparing their effectiveness in handling class imbalance. Real-world data analysis sheds light on the strengths and weaknesses of different approaches, providing practitioners with valuable insights for selecting suitable techniques. Ultimately, this research contributes a practical solution for addressing class imbalance, particularly in fraud detection scenarios, advancing the understanding of imbalanced data in predictive modeling.

Keywords: Machine Learning, Deep Learning, Classification, Class Imbalance, SMOTE, Oversampling, Undersampling.

1.Introduction
In the current era of technology, two pivotal domains, Machine Learning (ML) and Deep Learning (DL), stand at the forefront of innovation, reshaping the capabilities of computers and artificial intelligence.

September-2024

EduSkills Tech Camp at [Parvathaneni Brahmayya Siddhartha College of Arts & Science](#), Andhra Pradesh, was a great success with over 60+ students participated in the program. The students had the opportunity to learn **Google Android Developer** skill sets with Hands-on Activity, which will undoubtedly benefit them in their academic and professional pursuits. Thank you to all who made this event a success!



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 **12th-14th September 2024**