



B.V.V. SANGHA'S
BASAVESHWAR ENGINEERING COLLEGE BAGALKOTE - 587102

DEPARTMENT OF ARTIFICIAL INTELLIGENCE & MACHINE LEARNING

AI CHRONICLES

ISSUE 2 • NOVEMBER 2025

Unfolding the Journey of Minds and Machines

Dept Diaries

We are delighted to present the November edition of the AIML Newsletter — an engaging collection of updates, creativity, achievements, and insights that reflect the vibrant activities across our department.



This edition features a wide range of sections:

- **Dept Diaries** – Key updates, academic activities, and monthly highlights
- **Techies' Tribune** – Technical articles on AI, ML, Data Science, Programming, and innovation
- **ನಮ್ಮ ನುಡಿ** – Kannada articles, poems, and reflections
- **Colors & Strokes** – Artistic expressions through sketches, paintings, and digital art
- **Victory Vibes** – Events, competitions, workshops, and accomplishments
- **Mindful Musings** – Motivation, personal growth, and life skills
- **Literary Lane** – English essays, poetry, and creative writing
- **Frame Fiesta** – Photographic highlights of the month
- **Research Pulse** – Publications, patents, and research achievements



November marked a memorable celebration of Kannada Rajyotsava

- Traditional performances
- Songs and poems celebrating Kannada
- Essays and talks on Karnataka's heritage
- Art and cultural displaysThe entire campus radiated with the pride and beauty of Karnataka's rich culture and language
- The vibrant participation of students and faculty made the event truly special

Wishing you a wonderful reading experience!

TECHIES' TRIBUNE

Ethics in AI: Balancing Innovation and Responsibility

AI is all around us—helping us pick movies, recommending songs, or even assisting doctors to find diseases. It is powerful, but with great power comes responsibility. AI ethics is about making sure AI does the right things and does not hurt people.

Sometimes AI can be unfair. For example, if a system is trained on biased data, it may favor some people over others without meaning to. Or it might use personal information in ways that invade privacy. Ethics in AI makes sure AI is fair, safe, and respects our privacy.

The key is balance: we want AI to make life easier and smarter, but we must also use it responsibly. Following ethical AI rules helps build trust and fairness, so everyone benefits from technology.

- Chinmay R. M (5th Sem)



COLORS & STROKES



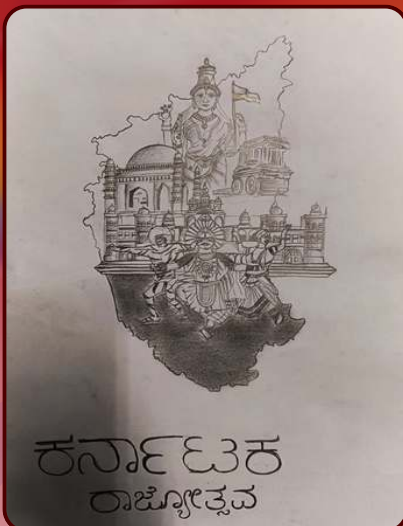
Parth Ishwarappagol (7th sem)



Parth Ishwarappagol (7th sem)



Prof. Lakshmi P. Kolar



Rahulgouda Patil (7th Sem)



Rahulgouda Patil (7th Sem)



Chinmayi Mullur (5th Sem)



Prof. Laxmi M

ನಮ್ಮ ನುಡಿ



ಏ ಏ ಪಯಣ

ಕೃತಕ ಬುದ್ಧಿ, ಯಂತ್ರ ಕಲಿಕೆ ನೈಸರ್ಗಿಕ ಭಾಷೆ ಸಂಸ್ಕರಣೆ ಚಾಲನೆ
ನ್ಯೂರಲ್ ನೆಟ್ವರ್ಕ್ ಜಾಲವಿದು ಕಂಪ್ಯೂಟರ್ ದೃಷ್ಟಿ ತೆರೆದಿದೆ ನೋಡು
ಡಿಪ್ ಲರ್ನಿಂಗ್ ಆಳಕ್ಕೆ ಇಳಿದು ಜ್ಞಾನಧಾರಿತ ವ್ಯವಸ್ಥೆ ಬೆಳೆದಿದೆ ಬಿಡು
ಜಲವರ್ಧನೆ ಕಲಿಕೆ ಹಾದಿ ರೋಬೋಟಿಕ್ಸ್ ತಂತ್ರಜ್ಞಾನದ ಜೋಡಿ
ಅಲ್ಲೊರಿದಂ ಲೆಕ್ಕಾಚಾರದ ಗತಿ ಇಂಟರ್ನೆಟ್ ಆಫ್ ಥಿಂಗ್ಸ್ ಜಗಕೆ ಮಿತಿ
ದತ್ತಾಂಶ ವಿಜ್ಞಾನದ ವಿಶ್ಲೇಷಣೆ ಎಲ್ಲಾ ಸೇರಿ ಜ್ಞಾನದ ಸೃಷ್ಟಿ ವಿಶೇಷ
ಕೃತಕ ಬುದ್ಧಿ ಬೆಳೆಯುತ್ತಿದೆ ನಿರಂತರ ಮಾನವನಿಗೆ ಸಹಾಯಕ ಶಾಶ್ವತ
ಯಂತ್ರ ಕಲಿಯುತ್ತಿದೆ ದಿನ ದಿನವು ಹೊಸಜ್ಞಾನ ಪಡೆಯುತ್ತಿದೆ ತನವು



- ಪ್ರೊ. ಅನಿತಾ ಜಿ. ಕೋರಿ



ಮುಗಲು ಮನಸು!!

ಬಿಸಿಲು ಬಂದು, ಮಾರಿ ಮ್ಯಾಲ ಬಿದ್ದು, ಮಾರಿ ಚುರಕ್ ಅಂದ್ರನೂ, ಲಗೂನ ಮುಂಜಾನೆ
ಏಳಾಕವಲ್ಲದು;
ಹಲ್ಲುಜ್ಜಿ, ಮಾರೀ ತೊಳೀಯಾಕ ವಲ್ಲದು;
ವ್ಯಾಯಾಮ, ಮೆಡಿಟೇಶನ್ ಮಾಡಕ್ಕಲ್ಲದು;
ಜಳಕ ಮಾಡಿ, ದೇವರಿಗೆ ನಮಸ್ಕಾರ ಮಾಡಾಕವಲ್ಲದು;
ಲಗೂನ ನಾಷ್ಟಾ ಮಾಡಾಕವಲ್ಲದು;
ಉ ರ ಕ್ಲಾಸೆ ಕೂಡಾಕವಲ್ಲದು;
ಬೇಡದ ಕ್ಲಾಸ್ ತಪ್ಪಿಸೋದು ಬಿಡವಲ್ಲದು;
ಕ್ಲಾಸ್ಸಾಗ ಮೇಡಂ/ ಸರ್ ಹೇಳಿದ್ದು ಕಿವಿಯಾಗ ಹಾಕೋಳಾಕವಲ್ಲದು;
ವಿಷಯಗಳನ್ನ ತಿಳಕೊಳ್ಳಾಕ ವಲ್ಲದು;
ಪ್ರಶ್ನೆ ಕೇಳಿದ್ರ ಉತ್ತರ ಹೇಳಾಕ ವಲ್ಲದು;
ಥೀರಿ ಓದಾಕ ವಲ್ಲದು;
ಲೆಕ್ಕ ಬಿಡನಾಕ ವಲ್ಲದು;
ಪ್ರೋಗ್ರಾಮ್ ಬರೀಲಿಕೆ ವಲ್ಲದು;
ಬರದು ಎಕ್ಸಿಕ್ಯೂಟ್ ಮಾಡಕವಲ್ಲದು;
ಲೈಬ್ರರಿಗೆ ಹೋಗಾಕ ವಲ್ಲದು;
ಅಸೈನ್ಮೆಂಟ್ಸ್ ಬರೀಲಿಕೆ ವಲ್ಲದು;
ಪರೀಕ್ಷೆ ಹಿಂದಿನ ದಿನ ಪುಸ್ತಕ ಹುಡುಕಾಡಿ, ಓದೋ ಚಾಳಿ ಬಿಡಾಕ ವಲ್ಲದು;
ಕ್ಷ, ಡಬ್ಲ್ಯೂ ಗ್ರೇಡ್ , ರೀ ರಿಜಿಸ್ಟ್ರೇಷನ್ ಮಾಡಕೊಳ್ಳೂದು ಬಿಡವಲ್ಲದು;
ಕ್ಯಾಂಪೆನ್ಸಟರೀ, ಮೇಕ್ ಅಪ್ ಮತ್ತ ಸಪ್ಲಿಮೆಂಟರಿ ಪರೀಕ್ಷೆ ಬರಿಯೋದು ಬಿಡವಲ್ಲದು;
ಪ್ರಾಜೆಕ್ಟ್ ಕೆಲ್ಸ ಸ್ವಂತ ಮಾಡಾಕ ವಲ್ಲದು;
ಖರೆ ಇದ್ದದ್ದ ಇದ್ದಂಗ ರಿಸಲ್ಟ್ ಮನಿಯಾಗ ಹೇಳಾಕ ವಲ್ಲದು;
ಹಿಂಗ್ಯಾಕ ಆತನ್ನೂದು ತಿಳೀವಲ್ಲದು...!! ತಿಳಕೊಳಾಕನೂ ಮನಸು ಮುಂದಾಗವಲ್ಲದು...!
" ಕಷ್ಟಕ ಕರೀಬ್ಯಾಡಿ , ಊಟಕ ಮರಿಬೇಡಿ " ಅನ್ನೋದನ್ನ ಬಿಡವಲ್ಲದು "ಮುಗಲು
ಮನಸು"

ನಾಯಿ

-ನಿಸ್ವಾರ್ಥಜೀವಿ

ಅಡ್ಡದ ನೋಡ ಓಡ್ಡದ ನೋಡ
ಏನ್ ಚೆಂದ ಆ ನಾಯಿ ನೋಡ

ಕಳ್ಳರನ ಕಡಿತ್ಯೆತ
ಜಿಪುಣರನ ಜಡಿತ್ಯೆತ
ಬಲ್ಲವರನ ಬಿಡುತ್ಯೆತ
ಒಳ್ಳೆಯವರನ ಓಲೈಸುತ್ಯೆತ

ಕಾರದಾಗ ಬರತ್ಯೆತ
ಹೇಳದಂಗ ಕೇಳತ್ಯೆತ
ಕೈಯಿಟ್ಟು ಕರೀತ್ಯೆತ
ಕಾಲಿಟ್ಟು ಜಿಗಿತ್ಯೆತ

ಅನ್ನ ತಿಂದು ಅರಗುಸ್ಕೊತ್ಯೆತ
ರೊಟ್ಟಿ ತಿಂದು ಗಟ್ಟಾಗ್ತೆ
ಮಾನವನಿಗಾಯಿ ಪ್ರಾಣಬಿಟ್ಟು
ಮಣ್ಣಲ್ಲಿ ಮಣ್ಣಾಗ್ತೆ

ಸತ್ಯದ ಮೂರುತಿ ನೋಡ
ನಿಯತ್ತಿನ ಆ ನಾಯಿ ನೋಡ

- ಪ್ರೊ. ಲಕ್ಷ್ಮೀ ಮುತ್ತಪ್ಪನವರ

- ಡಾ. ಭಾರತಿ ರೇಶ್ಮಿ

VICTORY VIBES



Dr. Bharati M. Reshmi
Associate Professor, HoD

Dr. Bharati M. Reshmi

- Paper on 'A Novel Hybrid Approach for Preprocessing and Contour Detection of Tessellated Fundus Images' for 2025 8th International Conference on Signal Processing and Information Security (ICSPIS) (Accepted)

Dr. Vishwanath C. Kagawade

- Reviewed article for International Springer journal of Signal, Image and Video Processing, Nov 2025
- Attended the session on Transforming Teaching & Learning with Gemini on Nov 15, 2025
- Reviewed an article of International Conference on Artificial Intelligence, Computer, Data Sciences and Applications (ACDSA 2026), Nov 17, 2025
- Judge for paper presentation, conducted by dept. of ECE, Basaveshwar Engineering college, Bagalkote, Nov 26, 2025
- Judge for IDEA presentation, conducted by dept. of CSE, Basaveshwar Engineering college, Bagalkote, Nov 28, 2025



Dr. Vishwanath C. Kagawade
Associate Professor



Prof. Jayasheela D. Kallaganiger
Assistant Professor

Prof. Jayasheela D. Kallaganiger

- Prof. Jayasheela D. Kallaganiger qualified KSET examination 2025
- Coordinator for SDP on "Statistical Thinking for Engineers Using Excel for Data Driven Decisions" conducted by the department of AIML on 7th to 9th November 2025.
- Judge for paper presentation, conducted by dept. of ECE, Basaveshwar Engineering college, Bagalkote, Nov 26, 2025

Prof. Laxmi P. Kolor

- Attended online workshop conducted by Gemini Academy on November 22, 2025



Prof. Laxmi P. Kolor
Assistant Professor



Prof. Anita G. Kori
Assistant Professor

Prof. Anita G. Kori

- Attended online workshop conducted by Gemini Academy Presented on November 22, 2025
- Attended 5-Days Faculty Development Program On "Cyber Security" Organized by Department of Computer Science & Engineering, Dr. T. Thimmaiah Institute of Technology, KGF from 10th to 14th of November 2025

Prof. Laxmi Muttappanavar

- Attended online workshop conducted by Gemini Academy on November 22, 2025



Prof. Laxmi Muttappanavar
Assistant Professor



Prof. Ashok S. Patil
Assistant Professor

Prof. Ashok Patil

- Attended the One-week FDP on Quantum Computing Foundation and Applications held from 27.10.2025 to 01.11.2025
- Attended the One-day Workshop on Gemini Academy conducted on 22.11.2025
- Coordinator for the Project Exhibition for 5th and 7th semester students held on 13.11.2025 and 17.11.2025
- Attended 3 Days FDP on empowering research excellence through Artificial Intelligence from 27.11.2025 to 29.11.2025

Prof. Brahmanand Reddy

- Attended the One-week FDP on Quantum Computing Foundation and Applications from 27.10.2025 to 01.11.2025
- Attended the One-day Gemini Academy Workshop conducted on 22.11.2025.
- Coordinator for the Project Exhibition for 5th and 7th semester students held on 13.11.2025 and 17.11.2025
- Attended 3 Days FDP on empowering research excellence through Artificial Intelligence from 27.11.2025 to 29.11.2025



Prof. Brahmanand Reddy
Assistant Professor



Be like K-means – even if you start randomly, you will eventually find where you belong.



Department of Artificial Intelligence and Machine Learning organized **Project Exhibition competition** on **13th November 2025** for 5th sem students and on **17th November 2025** for 7th sem students.

In 5th-semester the following groups were awarded prizes:

1st Prize

- Chinmay R M, Sameer V P, Appaji B M. **Project : Farm Setu “Bridge btw Tech & Farm”**

2nd Prize (Tie)

- Sohail I H, Shiva Y P, Girish V P, Prasanna S A. **Project: Campus Lost and Found Control**
- Deepa M, Meghan A, Poorvi A, Shahnna S . **Project: Predictive Modelling for Loan Approval**

3rd Prize (Tie)

- Preeti K, Shraddha A, Bhoomi A. **Project: Multi-Model Multi label Emotion Recognition**
- Sandesh J, Samarth A, Naveen H, , Shankar D. **Project: Sentimental Analysis on Stock Market**

Jury Members : Dr. Vishwanath C. Kagawade, Dr. Vasudha V. Ayyannavar

Coordinators : Dr. Vishwanath C. Kagawade Prof. Ashok Patil , Prof. Brahmanand Reddy



In 7th Semester the following groups were awarded prizes:

1st Prize

- Sahana jirli, Soumya M., Sudha Patil, Suman Kamatar
Project Title: Species Identification Using Deep Neural Networks

2nd Prize

- Apeksha K.K, Keerti N, Shreya M, Navya K **Project Title: Interpreting Infant Cries Using Audio Signal Processing & NLP-based Text Generation**

Jury Members

- 1.Dr. Vishwanath C. Kagawade
- 2.Dr. Lokesh Bhajantri

Coordinators

- 1.Dr. Vishwanath C. Kagawade
- 2.Prof. Ashok S. Patil
- 3.Prof. Brahmanand Reddy



Shiv Pawadshetty and Sohail I. H won the Idea Presentation Competition for their innovative concept Nano Guardians, an AI-powered nanobot system for real-time health protection and healing.

A team of four— **Deepa Muttagi, Meghana Gondi, Poorvi Ambekar, and Sahana Sinnur** (all 5th sem)—participated in CodeBharat 2025, a 16-hour innovation hackathon held at **IIIT Dharwad** on 19-20 November 2025

Suhas M Kharabude sung a song in BEC dhvani on the occasion of Karnataka rajyotsava



One student from our department, Rugved C. Sangulkar, was placed in Cognizant Gen C Next with a CTC of 6.75 LPA.

Congratulations

A moment of gratitude, AIML newsletter “ **AI Chronicles**” is released with the blessings and presence of our esteemed guests



Department of Artificial Intelligence and Machine Learning organized **Project Exhibition competition** on 13th November 2025 for 5th sem students and on 17th November 2025 for 7th sem students

Coordinators

- Dr. Vishwanath C. Kagawade
- Prof. Ashok S. Patil
- Prof. Brahmanand Reddy



Department organized three days Student Development Program on “ **Statistical Thinking For Engineers Using Excel For Data Driven Decisions**” from 7th to 9th November 2025

Resourse person: **Smt. Kavita Kalyandurgmath**

Coordinators: **Dr. Bharati M. Reshmi, Prof. Jayasheela D. Kallaganiger**



“

“Like PCA, reduce the dimensions of your worries and focus on your main components.”

Staffs were awarded prizes in the various events conducted on the eve of **Kannada Rajyotsava** :

Self-Composed Poem Recitation

- 2nd Prize: **Dr. Vishwanath C. Kagwade**



Singing

- Solo: 1st Prize: **Prof. Lakshmi P. Kolar**
- Group: 1st Prize: **Prof. Lakshmi P. Kolar and Group**



Drawing

- 1st Prize: **Prof. Laxmi Muttappanavar**



Dance

- Solo: 1st Prize: **Smt. Manjula Singangutti**
- Group: 1st Prize: **Prof. Lakshmi P. Kolar and Group**



Skit

- 1st Prize: **"Yattakkagi Shikshana"**



Students were awarded prizes in the various events conducted on the eve of **Kannada Rajyotsava** :

Quiz

- 3rd Prize: **Gouri S. Kurtakoti & Poorvi Patil**



Dance

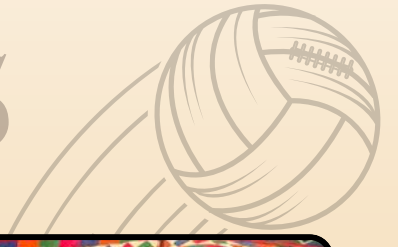
- 1st Prize: **Shravana Mahesh and Team**
- Freestyle - 2nd Prize: **Megha & Ranjita**

Skit

- 1st Prize: **"Chitrapata Ramayan"**
- 2nd Prize: **"Kannada Gotilla"**



SPORTS



In the month of **November**, two students from the AIML Department of Basaveshwar Engineering College, Bagalkot, achieved remarkable success in sports. **Aishwarya Mallikarjun Andodagi** from 3rd year and **Samruddhi Laxman Mohare** from 1st year represented the department by participating in the Zonal and Inter-Zonal Handball Tournaments held at SIT College, Mysuru.



Both students showcased outstanding performance and dedication throughout the tournaments. Their team secured the title of **Zonal Winners**, followed by an impressive achievement as **Inter-Zonal Runners-up**

This accomplishment has brought great pride and recognition to the AIML Department as well as Basaveshwar Engineering College, Bagalkot

Their achievement reflects the department's encouragement of holistic development and the students' commitment to excellence in both academics and sports



The Department proudly recognizes Prof. **Lakshmi P. Kolar** for serving as the runner in the inter-college badminton competition conducted by our college



MINDFUL MUSINGS



Teacher: What does CNN stand for?

Student: Convolutional Neural Network.



Teacher: And what does it do?

Student: It detects everything... except my mistakes.

Teacher: That's why I am here.



ಹುಚ್ಚನಂತೇ ಇರು,
ಪೆದ್ದನಂತೇ ಇರು,
ನೀನು ನೀನಾಗಿರು..

ಗುರಿಯೆಡೆಗೆ ಹೆಜ್ಜೆ ಹಾಕುತ್ತಿರುವ ನಿನ್ನ
ಅರಿಯದವರಿಗೆ,
ಸಾಧನೆಯ ಶಿಖರದೊಂದಿಗೆ
ಪರಿಚಯವಾಗುವಂತಿರು..



LITERARY LANE

Moments

Some lessons don't come from books.They come from the small moments we live without even realizing their value.

Most of our meaningful lessons happened during short breaks,those tiny 15 minutes that felt like hours. We would sit near the slope, laughing endlessly, talking about emotions, discussing about unfinished assignments,reels that we should make, And just when the moment felt perfect, someone suddenly say, "Guys, it's already been 20 minutes!"Then all of us would run back to class with half-eaten snacks and unfinished conversations.

Back then, we used to overthink everything like,what people would say, whether our decisions were right, whether we were enough. But over time,we realized "perspective and priority matters more than people's opinions."

And through all of it, one fact stayed constant-"friends are the most important part of our lives."Friendship isn't just about taking photographs, posting stories, or giving expensive gifts.It's about those souls who stand with you even when you are doubting yourself.They are the ones who listen, guide, fight with you, laugh with you, and still stay.So don't lose such people over small misunderstandings.

Some friendships are rare, and some moments-even tiny 15-minute breaks, become memories we carry for the rest of life.

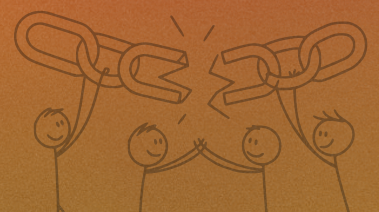
- Sneha S. Patil (5th sem)





“Let kindness lead, let ragging end.”

<http://119.161.97.228:8080/GrievancyPortal/>
Grievance Redressal Cell





Automatic Detection of Hard Exudate in Color Retinal Fundus Image and Diabetic Maculopathy Grading

Diabetic macular degeneration (DM) is often characterized by the early accumulation of lipid deposits on the retina, referred to as hard exudates (HEs), which originate from damaged retinal blood vessels. Timely detection of HEs is crucial to prevent vision loss and ensure prompt treatment for DM patients. This study introduces a novel approach leveraging mathematical morphology for the automated detection of HEs and grading of diabetic maculopathy using color fundus images. The identification and grading of diabetic maculopathy are based on two primary factors: precise delineation of the macular region, including the fovea and its center, using the optic disc's location and diameter, and accurate detection of hard exudates. The severity of diabetic maculopathy is determined by the presence of HEs within the macula. When tested on the publicly available MESSIDOR database, the proposed method demonstrated an impressive 92% accuracy in detecting diabetic maculopathy and identifying hard exudates within the macular region.

Published in: [IEEE Access](#)



Dr. Bharati M. Reshmi
Associate Professor, HoD

A robust face recognition approach through symbolic modeling of Polar FFT features

Face recognition is a challenging and one of the most active area of research in computer vision. Variations in face image due to change in illumination, expression and presence of occlusions along with aging present many challenges to face recognition system. In this paper a new approach to robust face recognition using Polar FFT features modeled as symbolic data is proposed. Initially the face segment is cropped from the image using Viola-Jones algorithm and is converted into gray scale image of size 120×120 pixels. 2D-DFT is performed on pre-processed image. The dominant magnitude of 2D-DFT coefficients are computed using polar fourier transform technique and are represented as 1D P-FFT. The magnitude that represents maximum value in 1D P-FFT is considered as a feature value. The extracted feature value is used to construct a symbolic object to represent a face image. Further, a new symbolic similarity measure is devised and employed for assigning test symbolic object to a face class. The performance of the proposed method is evaluated with AR database and an average accuracy of 96.25% is achieved. 100% and 97% verification rate is achieved on the ORL and LFW face databases respectively. The various experiments conducted on AR, ORL and LFW databases using the proposed symbolic data modeling approach shows that this method has a very high degree of recognition and is better compared to some of the recently reported face recognition techniques.

Published in: [Pattern Recognition, ELSEVIER](#)



Dr. Vishwanath C. Kagawade
Associate Professor

COLLEGE

VISION

To be an institution of excellence in education, research and innovation for sustainable future.

MISSION

- Develop globally competent professionals for future talent requirements.
- Nurture a culture of research, Innovation and entrepreneurship.
- Promote collaborations, extension and outreach programs for addressing industrial and societal needs.
- Imbibe moral and ethical values.
- Foster ecological and environmental consciousness.

DEPARTMENT

VISION

To develop competent, social and ethically responsible professionals in Artificial Intelligence and Machine Learning through excellence in education, research and innovation.

MISSION

- Develop globally competent AIML professionals to address real world problems
- Imbibe moral and socio-ethical values
- Cultivate multi-disciplinary environment that encourage collaboration and life-long learning
- Foster culture of research, innovation and entrepreneurship

EDITORIAL BOARD

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Dr. Bharati M. Reshmi

Chief Editor
Miss. Laxmi Muttappanavar

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Mr. Chinmay R. M (5th Sem)

Faculty Members :

- Dr. Vishwanath C. Kagawade
- Prof. Brahmanand Reddy
- Smt. Jayasheela D. Kallaganger
- Smt. Lakshmi P. Kolar



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