



Sri SAIRAM
COLLEGE OF ENGINEERING
Anekal, Bengaluru

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ISO 9001:2015 Certified Institution
Approved by AICTE, New Delhi
Affiliated to Visvesvaraya Technological University
www.sairamce.edu.in

Department of Artificial Intelligence and Machine Learning



30.09.2026

Submitted,

Sub: Report – One-Day Boot camp on “Image Annotation, AI Model Training and Computer Vision” – Reg.,

The Department of Artificial Intelligence and Machine Learning, in association with **ISTE and IEEE Robotics Automation Society**, organized a **One-Day Boot camp on “Image Annotation, AI Model Training and Computer Vision”** on **28.09.2026** at the **AIML Laboratory**. The primary objective of the boot camp was to provide students with practical exposure to the complete computer vision workflow, from image collection and annotation to AI model training, testing, live detection, and vision-based analysis.

The programme commenced with a **welcome address by Prof. Pramila R, AP/AIML**, who warmly welcomed the dignitaries, resource person, faculty members, and students. She highlighted the importance of hands-on learning and the relevance of computer vision in emerging AI applications.

This was followed by the **Presidential Address by Dr. Sivaprakash C, Professor and Head, Department of Artificial Intelligence and Machine Learning**. He emphasized the importance of practical and industry-oriented learning in developing students' technical skills and encouraged them to actively participate in the hands-on activities.

As part of the inaugural proceedings, **Mr. Selvaraj, Research Engineer & Founder, Make Clouds Digital Transformations, Bengaluru** was formally honoured by the Department. Following the felicitation, the Head of the Department handed over the session to the resource person to commence the technical proceedings.

The technical session began with an **Introduction to Computer Vision**, covering image classification, object detection, image analysis, and real-world applications. The resource person explained the complete computer vision workflow and emphasized the importance of quality datasets in developing effective AI models.

The subsequent session focused on **Image Dataset Collection**, where students learned to collect, organize, and categorize images according to the requirements of a selected computer vision problem. This was followed by a hands-on session on **Image Annotation**, in which students learned to draw bounding boxes, assign class labels, and prepare labelled datasets for AI model training.



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The **Dataset Pre-processing** session covered image quality checking, resizing, dataset organization, and splitting data into training, validation, and testing sets. Students were also introduced to the importance of pre-processing and augmentation in improving model performance.

The resource person then demonstrated **AI Model Training** for image classification and object detection. Students gained practical insights into preparing datasets, configuring models, and understanding the relationship between training data and model predictions.

The next session focused on **Testing and Evaluation**, where students tested trained models using unseen images and were introduced to **accuracy, precision, recall, and confidence scores**. The importance of evaluating models before real-world deployment was also explained.

The programme progressed to a **Live Computer Vision System**, where students observed the use of trained models with uploaded images, videos, and webcam input. The final technical session, **Vision-Based Analysis**, demonstrated the display of detections, confidence scores, object counts, and analytical results.

Students were also introduced to potential computer vision applications such as **fire and smoke detection, helmet and safety jacket detection, vehicle detection and counting, defective product identification, waste classification, plant disease identification, classroom occupancy analysis, traffic density analysis, and PPE compliance monitoring**.

The hands-on activities followed the workflow:

Collect Images → Annotate Dataset → Pre-process and Split → Train AI Model → Test Predictions → Run Live Analysis → Display Results

Students were encouraged to develop a working computer vision prototype consisting of an organized dataset, annotated images, defined object classes, trained AI model, performance results, live/image detection, confidence scores, analytical outputs, and source code or deployment workflow.

The interactive nature of the boot camp enabled students to connect theoretical concepts with practical applications. Students actively participated in the demonstrations and clarified their doubts regarding **dataset preparation, annotation, pre-processing, model training, evaluation, and deployment**.

Learning Outcomes

At the end of the boot camp, students gained practical knowledge of **image collection, image annotation, dataset pre-processing, AI model training, model evaluation, live detection, and vision-based analysis**. They also gained the confidence to identify computer vision problems suitable for **mini-projects, final-year projects, and industry applications**.

Sustainable Development Goals (SDGs) Contribution

The programme contributed to **SDG 4 – Quality Education** by promoting practical and skill-based learning in AI and Computer Vision. It supported **SDG 9 – Industry, Innovation and Infrastructure**



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by exposing students to AI model development and industry-relevant applications. The involvement of an industry expert also supported **SDG 17 – Partnerships for the Goals** through industry-academia interaction and knowledge sharing.

Conclusion

Overall, the **One-Day Boot camp on “Image Annotation, AI Model Training and Computer Vision”** was successfully conducted and provided students with valuable hands-on experience in the complete computer vision development pipeline. The programme enhanced their technical skills and practical understanding of AI-based visual applications.

The programme concluded with a demonstration and followed by participant feedback. The Department expresses its sincere gratitude to the management, **Dr. Sivaprakash C, Professor and Head, Mr. Selvaraj, the resource person, ISTE and IEEE Robotics Automation Society, faculty members, and students** for their valuable support and active participation in making the programme a successful and enriching learning experience.

COORDINATOR

HOD

Professor & Head
Dept. of Artificial Intelligence & Machine Learning
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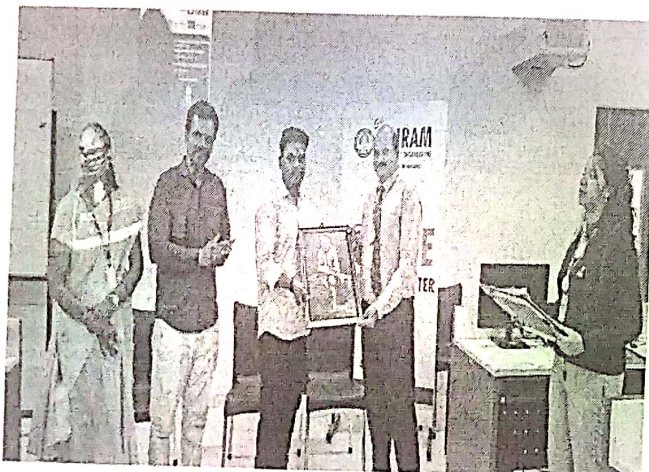
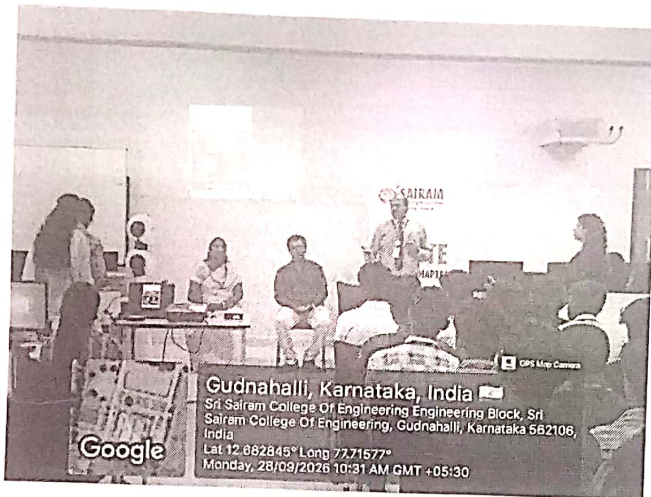


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Glimpses of Boot Camp

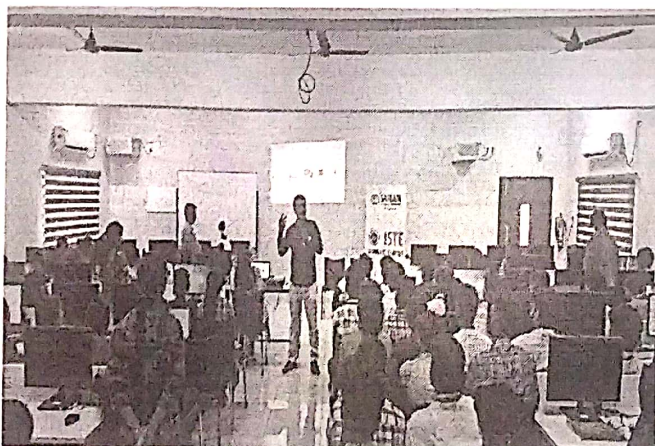
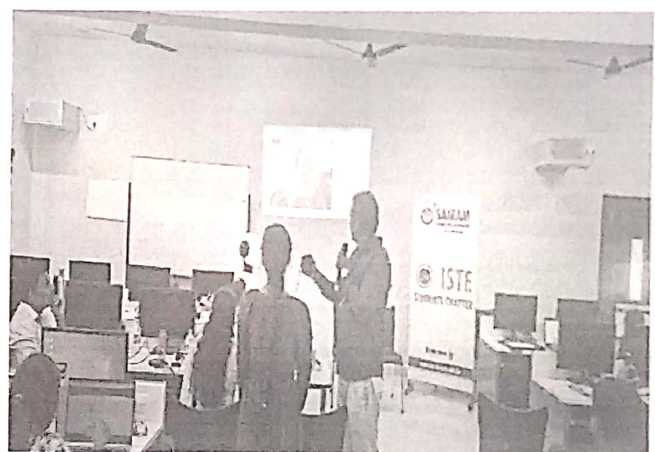
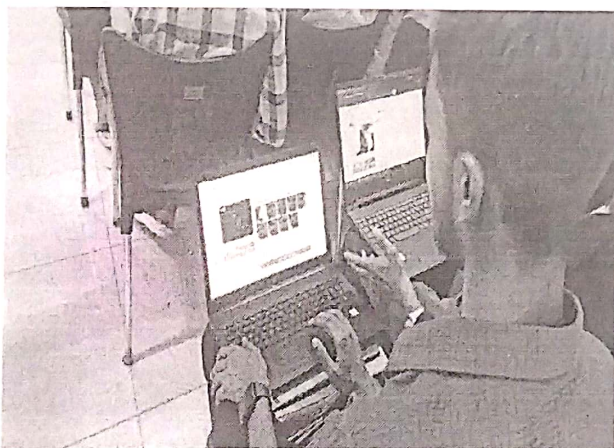
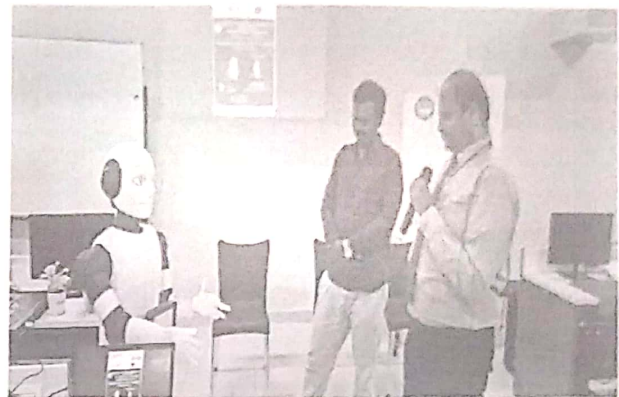
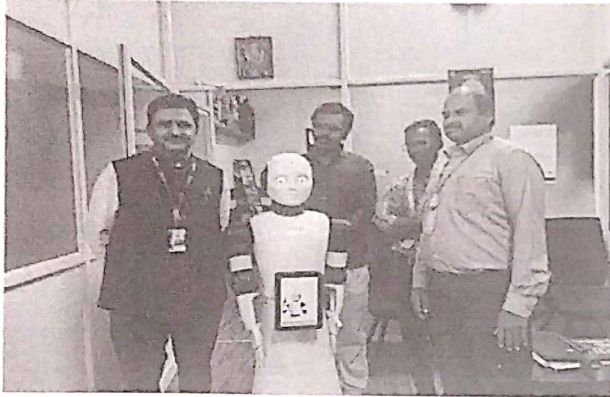




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Poster:



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IEEE Robotics & Automation Society

NBA
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Sairam
ACTIVE FACILITIES

Department of Artificial Intelligence & Machine Learning
in Association with
ISTE and IEEE Robotics Automation Society
organizing One-Day Boot Camp on
**Image Annotation AI Model Training and
Computer Vision**

Resource person


Mr. SELVARAJ
Research Engineer & Founder
MAKE CLOUDS DIGITAL TRANSFORMATIONS (Bangalore)

Date
28/09/2026

Venue
AIML Lab

Prof. Pramila R
Coordinator

Dr. Sivaprakash.C
HOD AIML

Dr. B. Shadaksharappa
Principal

Dr. Sai Prakash LeoMuthu
Chairman & CEO
Sairam Institutions

01/10/2026





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Students Feedback

75 responses

 [Link to Sheets](#) 

Summary

Question

Individual

Who has responded?

Email

sce25am031@sairamtap.edu.in
sce25am082@sairamtap.edu.in
sce25am102@sairamtap.edu.in
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sce25am070@sairamtap.edu.in
sce25am066@sairamtap.edu.in
dheekshithkumars143@gmail.com

USN

74 responses

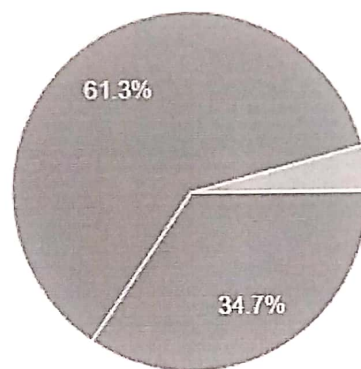
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1SB25AI026
1SB25AI047
1SB25AI066



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How relevant was the content to your course?

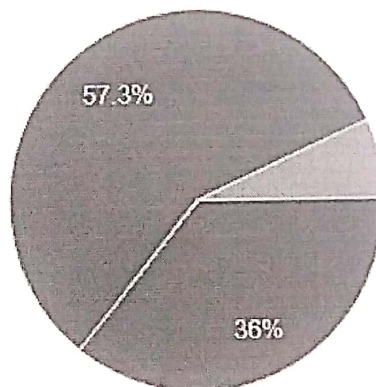
75 responses



- Highly Relevant
- Relevant
- Slightly Relevant
- Not Relevant

How well were Image Annotation concepts explained?

75 responses



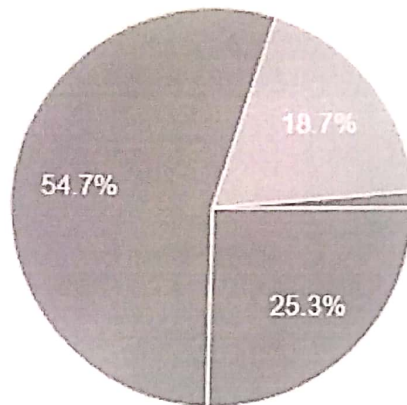
- Excellent
- Good
- Fair
- Poor



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Did the boot camp improve your understanding of Computer Vision?

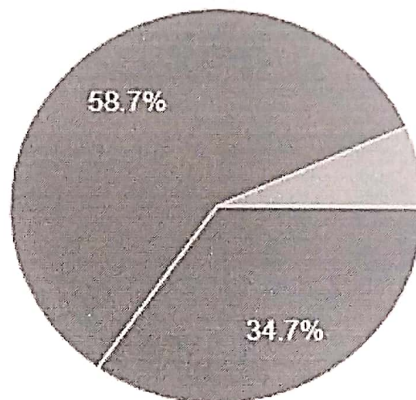
75 responses



- Significantly Improved
- Improved
- Slightly Improved
- No Improvement

How effective were the practical demonstrations?

75 responses



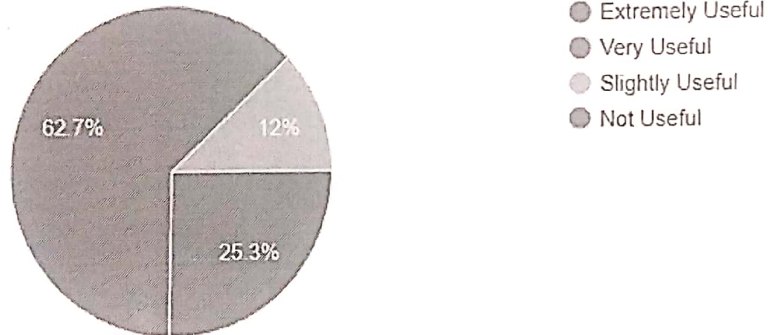
- Excellent
- Good
- Fair
- Poor



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How useful were the real-world examples?

75 responses

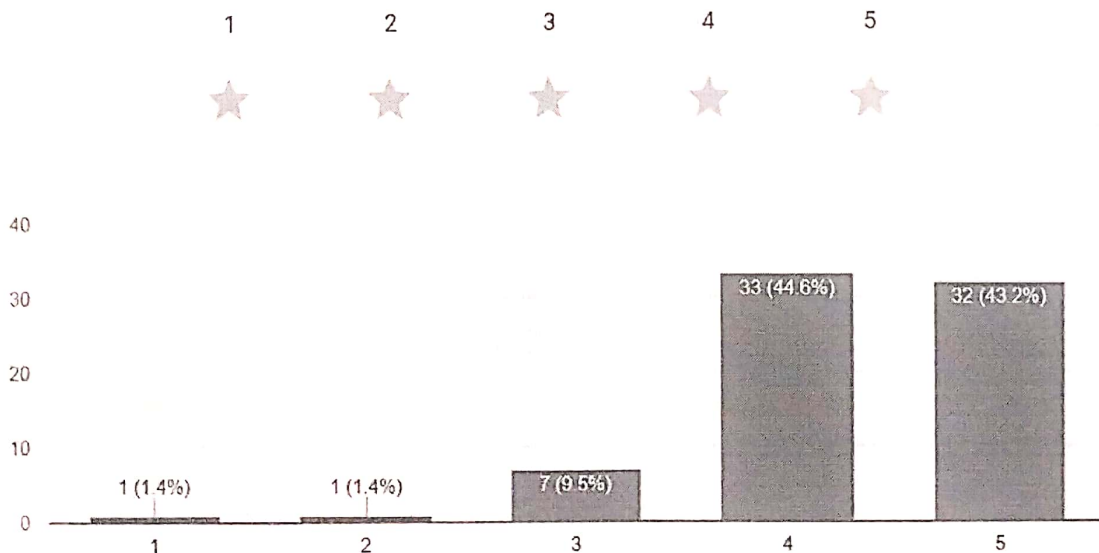


How would you rate the overall boot camp?

☐ Copy chart

74 responses

Average rating (4.27)



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01/10/2024

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