



**SAL INSTITUTE OF TECHNOLOGY & ENGINEERING RESEARCH &  
SAL ENGINEERING AND TECHNICAL INSTITUTE**

**Department of Computer Engineering**

**Expert Session**

**On**

**“Innovative Application of Image Processing in  
Medical domain”**

**25<sup>th</sup> February, 2022**

**Director & Principal: - Dr. Rupesh Vasani**

**I/C Principal & Head of Department: - Dr. Ajay Upadhyaya**

**Session Conducted by: - Asst. Prof. Jignyasa Gandhi**

**Department of Computer Engineering,**

**SAL education, Ahmedabad**



**Date:** 25/2/2022

**Venue:** SAL Engineering and Technical Institute

**Mode of Workshop:** Online – Zoom meet

**Title of Workshop:** Innovative Application of Image Processing in Medical domain

**Name of speaker :-** Mrs. Jignyasa Gandhi

**No. of students Participated:** 32

**No. of faculties Participated:** 03

**No. of external Participated (if any):** Nil

**Facebook URL:**

<https://www.facebook.com/saleducationsal/photos/a.449472965207926/2191078714380667/>

**Objective:**

**To make the Students aware about the various image processing techniques, Challenges and Opportunities in Medical Domain for Engineers and Latest Trends**

Since Image Processing is elective course to the students, the session focused to make aware students about Image processing. The students were introduced to Latest trends in the medical image processing domain, about applications and opportunities in this field. It also motivate students for solving the different technical problems of the medical image processing.

**Benefits in Terms of Learning, Skills & Knowledge:**

Apart from teaching it is necessary for the students to be part of technical extracurricular activities. Students can learn about new domain, scope and opportunities in that domain. This helps the student in skill development and also adds to their resume. These extra-curricular activities will be helpful in internship and placement.

**About the Event:**

The Department of Computer Engineering of SAL Institute of Technology & Engineering Research & SAL Engineering and Technical Institute has organized an Expert Session on “**Innovative Application of Image Processing in Medical domain**” for the 2<sup>nd</sup> and 3<sup>rd</sup> year Students. This workshop was organized so that students can be introduce to Latest trends in the medical image processing domain, about applications and opportunities in this field.

**Highlights of the Workshop:**

The workshop started with the basic introduction of the Image and Image processing by Speaker Prof. Jignyasa Gandhi. The students were given brief description about difference between Image processing, Computer Graphics, Computer Vision and Artificial Intelligence. The students were introduced to basic imaging modalities used in medical imaging for screening of the disease. The students were introduced to the principle of image acquisition of medical imaging modalities like X-



Rays, CT scans, MRI, PET, SPECT, Ultrasound, etc. The image processing and researches going on with these images were also explained to students.

**SAL Engineering and Technical Institute**

*Expert Session on*

**Innovative Application of Image Processing in Medical domain**

Presented by:  
**Prof. Jignyasa Gandhi**  
[jignyasa.gandhi@sal.edu.in](mailto:jignyasa.gandhi@sal.edu.in)

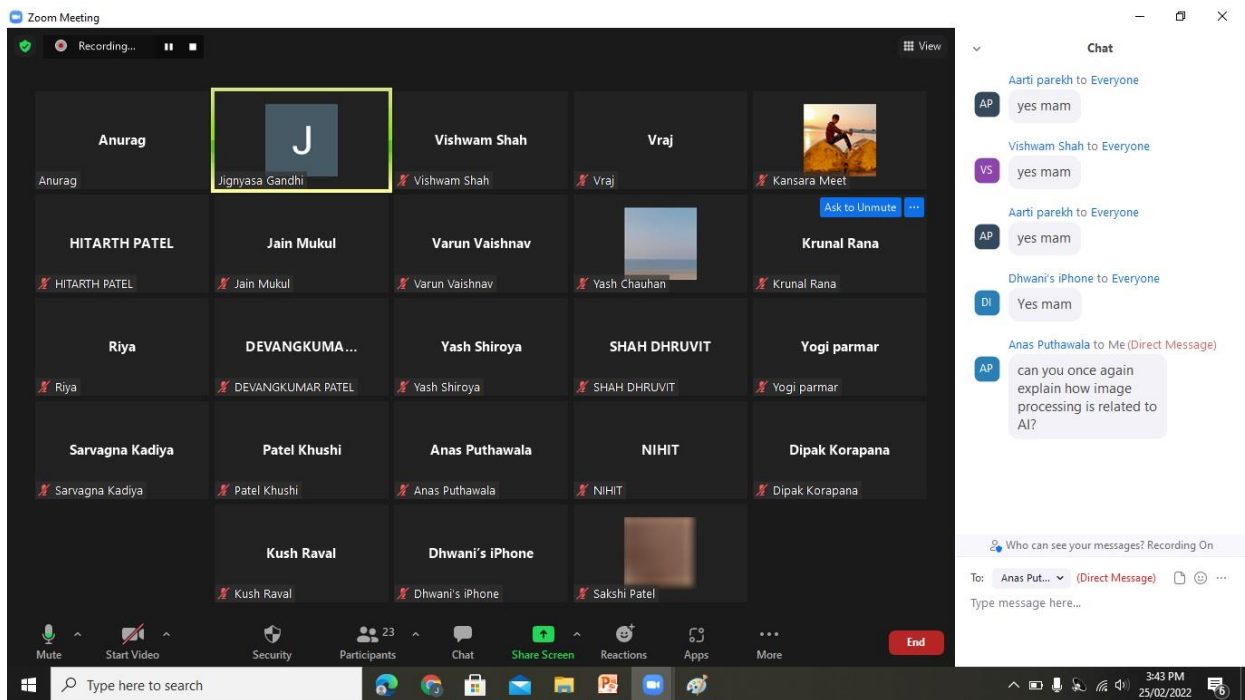
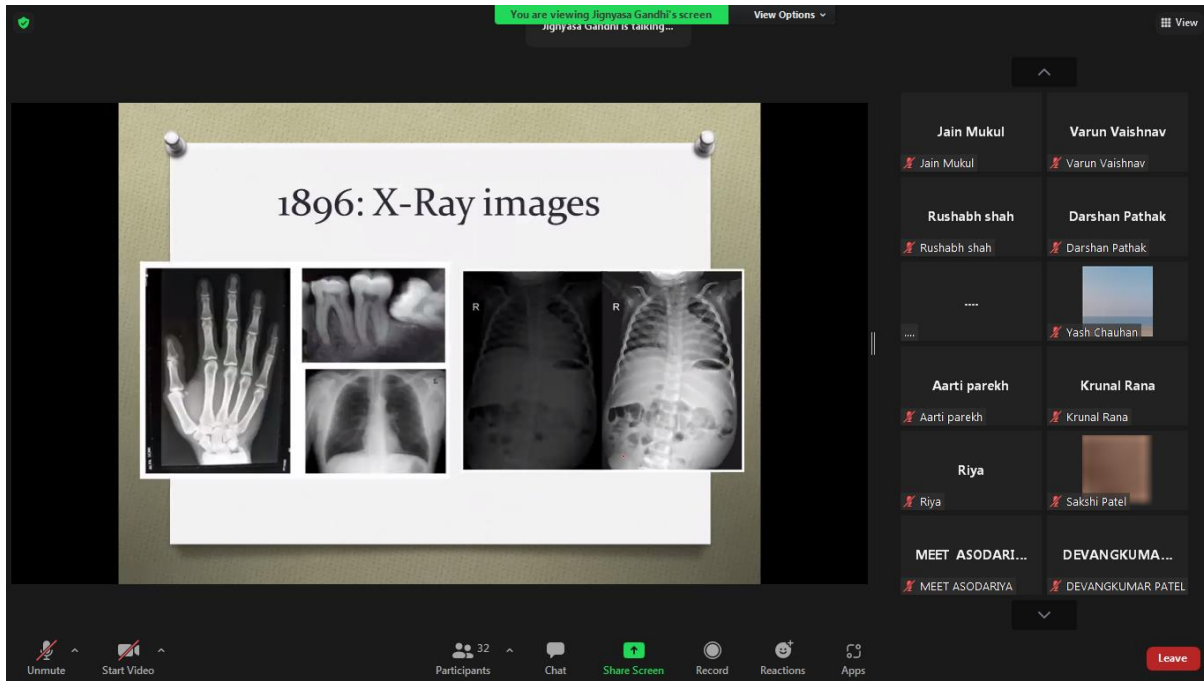
	<b>Madhuri Parekh</b> Madhuri Parekh
<b>DEVANGKUMA...</b> DEVANGKUMAR PATEL	<b>Anurag</b> Anurag
<b>Rajput shubham J</b> Connecting to audio ...	<b>Vishwam Shah</b> Vishwam Shah
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Jignyasa Gandhi is talking...

## Image Processing

- It is any form of signal processing for which the input is an image, such as a photograph or video frame; the output may be either an image or a set of characteristics or parameters related to the image.
- Purpose: Visualization, Image sharpening ,restoration & Image retrieval, Measurement of pattern, Image recognition.
- Methods used for image processing are analog and digital image processing.

<b>Jain Mukul</b> Jain Mukul	<b>Varun Vaishnav</b> Varun Vaishnav
<b>Rushabh shah</b> Rushabh shah	<b>Darshan Pathak</b> Darshan Pathak
....	
<b>Aarti parekh</b> Aarti parekh	<b>Krunal Rana</b> Krunal Rana
<b>Riya</b> Riya	
<b>MEET ASODARI...</b> MEET ASODARIYA	<b>DEVANGKUMA...</b> DEVANGKUMAR PATEL



Total 35 participants were Present in this Program Including students and Faculty members. Some Students have given good response for this type of Session. These students are interested for working on innovative projects related to this domain.

**Report Prepared By:**

Asst. Prof. Jignyasa Gandhi  
 Dept. of Computer Engineering,  
 SAL Engineering and Technical Institute  
 SAL Education, Ahmedabad