



NARAYANA ENGINEERING COLLEGE::NELLORE



AUTONOMOUS

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

A Report of FDP on "Applications of Machine Learning in Health Care Technology"

Department of Electronics & Communication Engineering, Narayana Engineering College, Nellore, organized a five day online FDP on "**Applications of Machine Learning in Healthcare Technology**" from 22nd to 26th February 2022. In this FDP, a total of **325 faculty members have participated**. The following members are the resource person for the programme.

1. Dr. SUHAIL PARVAZE
Research Consultant,
MRI Post Processing Applications,
Philips, Bangalore.
2. Mr. PREM KUMAR
Senior Application Engineer,
Capricot Technologies Pvt. Ltd.,
Bangalore.
3. Dr.K. MURALI
Professor & HOD-ECE,
Narayana Engineering College, Nellore.
4. Dr. S.V.MAHESHKUMAR
Associate Professor & Head – ECE,
Amrita College of Engineering and Technology,
Nagercoil, Tamilnadu.



Dr. K. Murali, Professor &HOD of ECE Welcome the participants

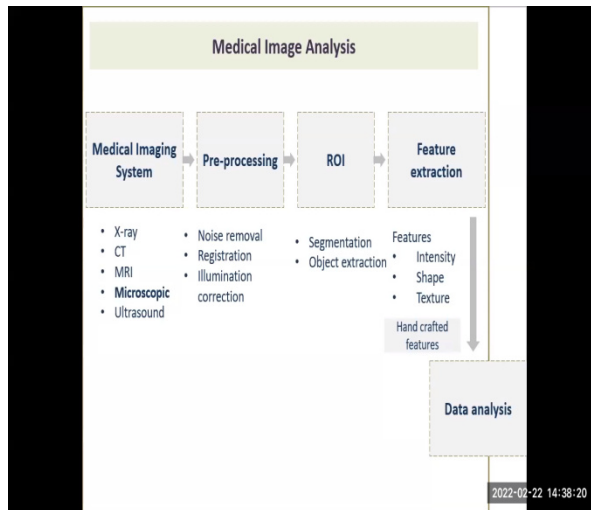


Dr. G. Srinivasulu Reddy, Principal addressing the participants

The inaugural function of the FDP started with a welcome address by Dr. K Murali, HOD-ECE and he presented the theme of the FDP and said that Machine learning plays a key role in many health-related issues which includes the development of new medical procedures, the handling of patient data and records and the treatment of chronic diseases. Machine learning is finding a wide range of healthcare

applications, ranging from case management of prevalent chronic diseases to leveraging patient health data, in conjunction with external influences like pollution exposure and weather factors.

Later, the Principal of NECN addressed the staff members and said that FDPs will help for the growth of the faculty in all facets of their professional lives. FDPs will provide resources which will help the faculty to develop as scholars, to publish and share at professional conferences, and to improve their performance in the classroom.



NARAYANA ENGINEERING COLLEGE::NELLORE (AUTONOMOUS)

A Five Day Online FDP on Applications of Machine Learning in Healthcare Technology
(February 22nd to 26th, 2022)

Dr. Suhail Parvaz
Research Consultant, Philips
Innovation Campus, Bangalore.
Date: 22.02.22 Time: 2.00 pm

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Dr. Suhail Parvez, explaining the Medical Image Analysis

The image shows the MATLAB software interface. The Command Window contains the following code:

```

>> load('rawSensorData_train.mat')
fx>>

```

The Workspace window shows a table of data:

Name	Value	Bytes	Size	Class
body_gyro_x	7352x128...	7528...	7352x128	doubl
body_gyro_y	7352x128...	7528...	7352x128	doubl
body_gyro_z	7352x128...	7528...	7352x128	doubl

The Editor window shows the following code:

```

%% Characterization
rawSensorDataTrain = table(...
    total_acc_x, total_acc_y, total_acc_z, ...
    body_gyro_x, body_gyro_y, body_gyro_z);

```

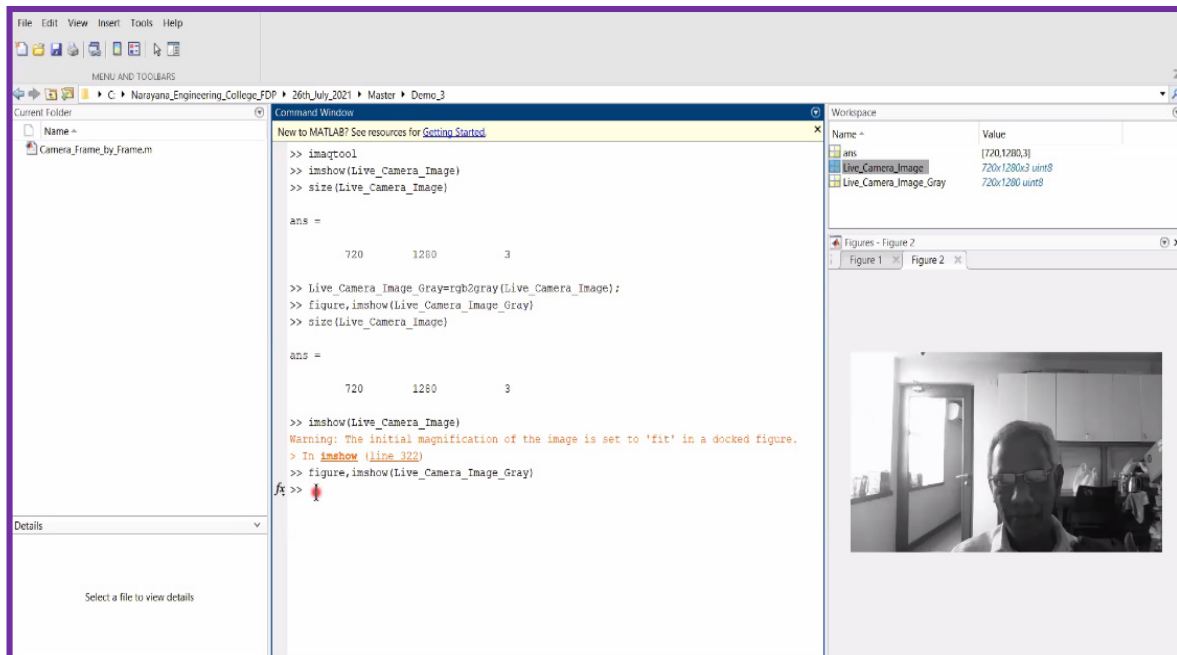
NARAYANA ENGINEERING COLLEGE::NELLORE (AUTONOMOUS)

A Five Day Online FDP on Applications of Machine Learning in Healthcare Technology
(February 22nd to 26th, 2022)

Mr. PREM KUMAR
Senior Application Engineer,
Capricot Technologies Pvt. Ltd.,
Bangalore.
Date: 24.02.22 Time: 2.00 pm

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Mr. Prem Kumar, explaining the concept Image Analysis using MATLAB



Resource Person explaining about image processing commands in MATLAB

Dr. K. Murali, Professor, NECN, addressed the applications of machine learning developments in healthcare technology include exploring ways to use the technology in telemedicine.

Friedman's "fundamental theorem" of informatics

The diagram illustrates the theorem: **Environment (Person + Technology) > Environment (Person without Support)**. It features icons for a person's head, a plus sign, a computer monitor, a greater-than sign, and another person's head.

(Charles Friedman, PhD, National Library of Medicine)

A Five Day FDP On Application of ML in Healthcare Technology 25-02-2022 2022-02-25 14:36:31

Dr. K. Murali explaining about the Medical Informatics

Machine Learning in Biomedical Engineering

A Five Day FDP on “APPLICATIONS OF MACHINE LEARNING IN HEALTHCARE TECHNOLOGY”

(26-02-2022, Session-5)



NARAYANA ENGINEERING COLLEGE: NELLORE
AUTONOMOUS
Department of Electronics & Communication Engineering

Dr. S. V. Mahesh kumar

Department of ECE



AMRITA | College of Engineering
& Technology



Dr. S. V. Mahesh Kumar

2022-02-26 14:07:58

Dr. S. V. MAHESH KUMAR explaining about the Machine Learning in Biomedical Engineering

Expected outcomes:

- Opens new avenues for faculty members to pursue research in Applications of Machine Learning in Healthcare Technology
- Provides detailed knowledge of Deep Learning and Medical Informatics.
- Shows the importance of Machine Learning Systems in today's trends of life.