

SarvajaniK College of Engineering & Technology, Surat

Constituent institute of SarvajaniK University

Report on Expert Lecture

On

AI in Healthcare

Organized by

Instrumentation & Control Department

in association with IEEE Computational Intelligence Society (CIS) ,
Gujarat Chapter



 SarvajaniK University
SarvajaniK College of Engineering and Technology, Surat

Shri Sitaram Somani
Faculty of Instrumentation and Control Engineering
+ in association with IEEE Computational Intelligence Society (CIS) , Gujarat Chapter



**Expert Lecture
on
AI in Healthcare**

Guest Speaker:
Dr. Amit Joshi,
Associate Professor, MNIT, Jaipur

Target Audience:
UG/PG Students, SCET
Coordinator: Tejal Joshi

Date: 5th March, 24
Time: 9:15 am to 10:15 am
Day: Tuesday
Duration: 1 hour
Venue: III cell, IC department, SCET

Event Detail

Date: 5st March 2024,

Time: 9: 15 am to 10:15am

Venue: F106 classroom,I&C,SCET,Surat

Expert : Dr. Amit Joshi

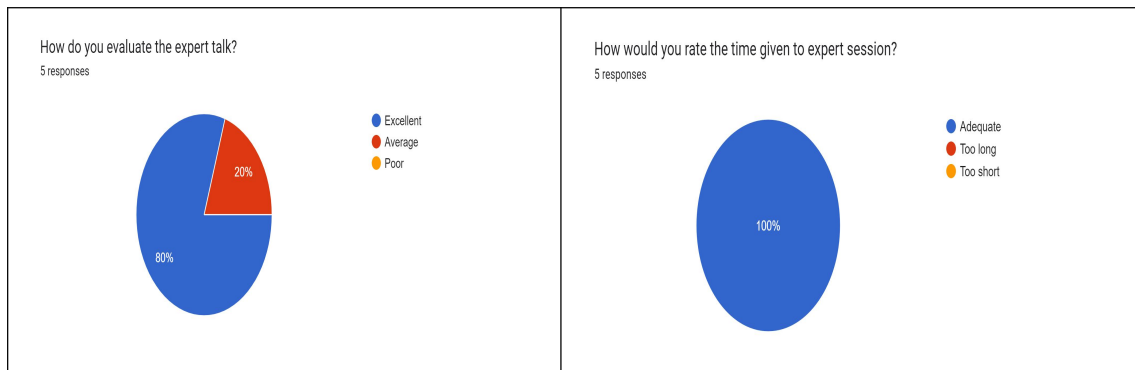
Sponsored by: IEEE Computational Intelligence Society (CIS) , Gujarat Chapter

Participants: 25 students of BTech III I&C and EC honors subject students and Faculties

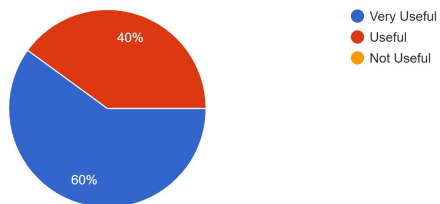
Expert Dr. Amit Joshi ,an alumni of SCET,EC completed his M.Tech and Ph.D. from SVNIT, Surat in 2009 and 2015 respectively. He is currently an Associate Professor at Malaviya National Institute of Technology, Jaipur (MNIT Jaipur). His area of specialization is Biomedical signal processing, Smart healthcare, VLSI DSP Systems, and embedded system design.He is also founder and Director for startup “Svaarogyam Medical Device Pvt. Ltd.” which is incubated at MNIT Innovation and Incubation Centre Jaipur.

The objective of the lecture was to give students of biomedical engineering (Elective subject I&C) and students of deep learning (subject from EC) , a practical applications of machine learning in biomedical domain. Stating with requirements of smart healthcare, he covered features of smart healthcare which are known as e-health, m-health etc. He described in detail the i-glu1.0 and i-glu2.0 glucose monitoring device designed by him in his lab. The device can measure blood glucose of a patient in noninvasive manner with accuracy of 90%. He has shown another EMG based prosthetic arm application which was imitating few movement of opening, closing and grasping of the object by hand . As the command given by brain drives our muscles of the body, which were parallely transferred to PC through EMG and it was actuating the robotic arm. He has talked about ditwin (digital twin) in biomedical domain. He ended his discussion with challenges in design of wearable devices. The students had a good interaction with an expert at the end of the session. The HoD Dr. Brijesh Naik felicitated him with flower and certificate of appreciation.

From feedback received from very few participants, , the following is the chart showing effectiveness of the lecture.



Did you gain in terms of knowledge increase from Expert Sessions?
5 responses



Glimpses of Expert Lecture:

