

**Report for Five Day Online Short Term Training Programme on
Artificial Intelligence and its Impact on Industry 4.0
(Technologies and Solution Methodologies for Real-world Scenarios)
26.04.2021 to 30.04.2021**

01.05.2021

**Conducted during 26th – 30th April 2021
Organized by School of Computer, Information and Mathematical Sciences, BSACIST
in association with
Computer Society of India (CSI) and ICT Academy**

Convenor

Dr. Venkatesan Selvam,
Dean, SCIMS

Coordinators

Dr. Gufran Ahmad Ansari, Prof./CA
& Director (CFSC)
Dr. S. Revathi, Prof./CSE
Dr. N. Ayyanathan, Assoc. Prof/CA

Co-Coordiators

Mr. N. Rajendran, AP(Sr.Gr)/IT
Dr. A. Ramachandran, AP/CSE
Mr. V.M. Niaz Ahamed, AP/CA

A Five Day Online Short Term Training Programme on Artificial Intelligence and its Impact on Industry 4.0 (Technologies and Solution Methodologies for Real-world Scenarios) 26.04.2021 to 30.04.2021 was organized by School of Computer, Information and Mathematical Sciences, in association with Computer Society of India (CSI) and ICT Academy, through Zoom platform.

The inaugural function was attended by the participants from various institutions and organizations along with faculty members and Heads of the various departments of this prestigious institution of repute with 36 years of academic excellence.

Inaugural Session started with Qirath, followed by Welcome Address by STTP Coordinator, Dr. Gufran Ahamed Ansari, Prof/CA & Director (CFSC). Presidential Address was delivered by Dr. Venkatesan Selvam, Dean, SCIMS. The Chief Guest of the Inaugural function, **Dr. Lalith Kumar Singh**, Nuclear Scientist, NPCIL (BARC), Department of Atomic Energy, Govt. of India, delivered Keynote address on “Artificial Intelligence for Reliability Analysis of Safety-Critical Systems”. He explained the Markov models on reliability of systems and Petri Nets, which explains about the reliability prediction of safety critical systems. The second session was handled by **Dr. Mohanraj Vengadachalam**, Data Scientist, Standard Chartered, Chennai, on the topic “Introduction to Industry 4.0 & AI and Industry 4.0 Applications in Image Processing”. Dr. Mohanraj, gave a brief introduction about Computer Vision and he gave several real time applications of Computer Vision.

Post inauguration, after session was started by 2.00 p.m. on 26th April 2021. The title of the invited talk was “Role of Industry 4.0 in Digital Marketing”. The resource person for the session was **Mr. V. J. Saravanan**, Digital Marketing Strategist, Founder - Managing Director, Four steps Training Solutions.

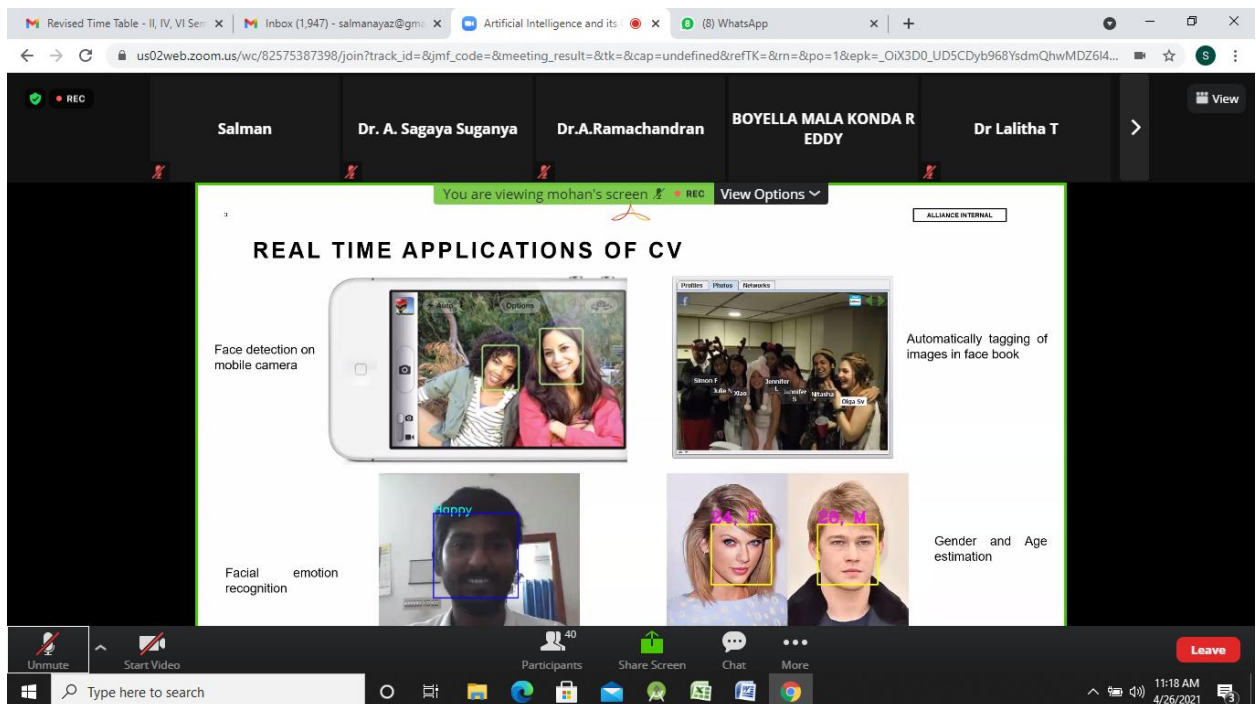
The second day of the STTP program started with a session on “IoT Powered Energy Analytics” at 10.30. The session was handled by **Dr. M.P. Selvan**, Professor NIT Trichy. The session started with the Intrusion of Communication Technology in Power Sector. **Ms. R. Ramakala**, IoT Trainer, Skill Technica handled the second session, on the topic “IoT for computational Intelligence”. She gave a brief introduction about IoT, AI and ML and explained several real time applications of Artificial Intelligence and Machine Learning.

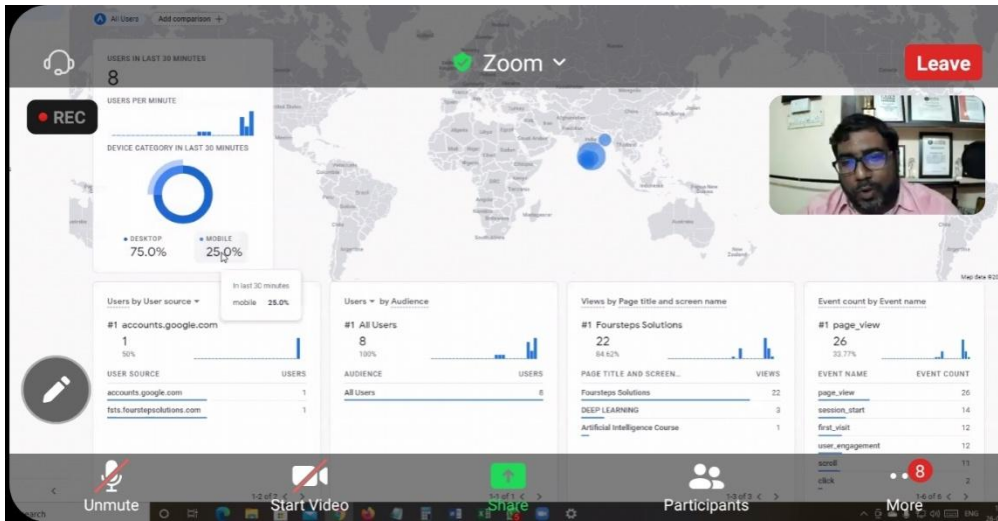
Day 3 forenoon session was delivered by **Mr. Siva Prasath**. CEO, Jothana Software Pvt. Ltd, Chennai, on “Advanced Machine Learning Techniques Data Science, Data Analytics, AI & Python Basics”. He gave introduction about python with hands on using Jupyter Notebook. He continued with post lunch session on “Introduction to NumPy and Pandas, Predictive analysis, Linear Regression, Logistic Regression and Model Creation”.

Day 4, session started with “Cyber Security Attacks Detection and Mitigation” by **Dr.S.Sibi Chakkaravarthy**, Cyber Security Consultant. He took over the post lunch session on the topic “AI Powered Malware Analysis”.

The last day of the STTP Programme Day 5, Resource person was **Mr. Arshad Sarfarz Ariff**, Senior Technology Architect, Infosys Ltd., on the topic “Introduction to Blockchain Technology”. Later on, Quiz was conducted to the participants followed by feedback. The last session of STTP ended with valedictory function.

The Chief Guest for the Valedictory function **Mr. Raj Kapoor**, Founder, India Blockchain Alliance and delivered Keynote address on “Blockchain Technology in Industry 4.0” was presided by Dr. Venkatesan Selvam, Dean (SCIMS).





INTRUSION OF COMMUNICATION TECHNOLOGY IN POWER SECTOR

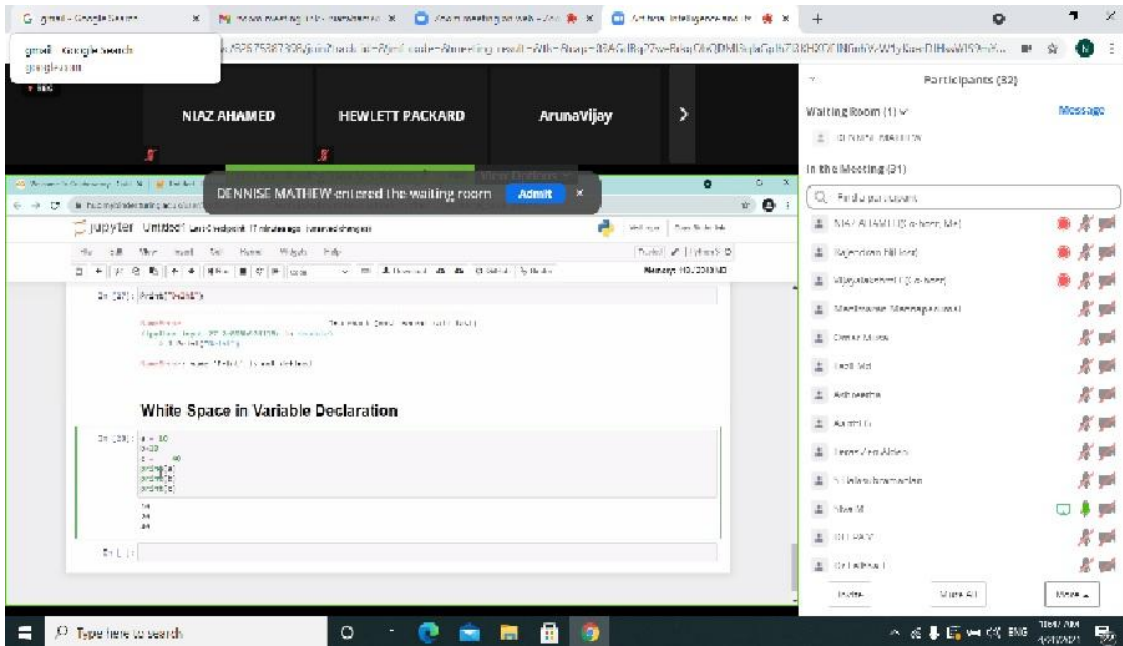
PAST **PRESENT** **FUTURE**

— Electrical infrastructure - - - Communications

Participants (35)

- DM DENNISE MATHEW
- DJ Dhanalakshmi J
- DL Dr Lalitha T
- D Dr.A.Ramachandran
- FM Fazil Md
- FZ Feras Zen Alden
- GJ Galaxy JS Prime
- I ilakiyak
- MM Manimaran Mannaperumal
- OM Omar Musa
- RL R Leo
- R Robert
- SB S Balasubramanian
- SK Shahih Khan
- S Sivakrishna
- SS Sourav Sinha





The screenshot shows a Zoom meeting interface. At the top, there are browser tabs for Google, Zoom, and a Jupyter Notebook. The Jupyter Notebook is open to a file named 'White Space in Variable Declaration'. The code in the notebook is as follows:

```

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