A Report on Five Days Online Faculty Development Program On
"Developing Potentials-Emerging Technologies in Computer Science and IT"
Organized by Department of Computer Applications
from 06.05.2024 to 10.05.2024

Summited by: Dr. Srinivasan J, Assistant Professor, Department of Computer Applications

Report Received on 18.05.2024

Mode of Conduct: Online

Five Days Online Faculty Development Program on Developing Potentials-Emerging Technologies in Computer Science and IT was successfully conducted from 06-05-2024 to 10-05-2024 in online mode (MS-TEAMS). The objective of the FDP was to enrich the knowledge of recent technology on various computer trends with underlying concepts and real-world scenarios. The FDP programme received an overwhelming response, with 313 participants from various institutions.

Significance of the FDP:

In recent years, we have witnessed the rapid development of various computer trends, significantly impacting education, research, and lifestyle. FDP addressed the recent trends in computer technology and explained frontier technologies in the information technology domain to the participants. Also, the recent research areas in upcoming technologies were widely discussed.

Day 1:

The online inaugural session started at 9.45 AM by welcoming all Experts, Participants, Management, Principal and Head of the Department along with respective teaching and non-teaching staff by Dr. Srinivasan Jagannathan, Convener, Followed by Dr. C. Yuvaraj, Principal, Madanapalle Institute of Technology & Science, Madanapalle, addressed the participants about the five-day FDP programme.
Dr. N. Naveen Kumar, Associate Professor, HOD, Department of Computer Applications, conveyed a Felicitation addressed in the Five Days Faculty Development Program.
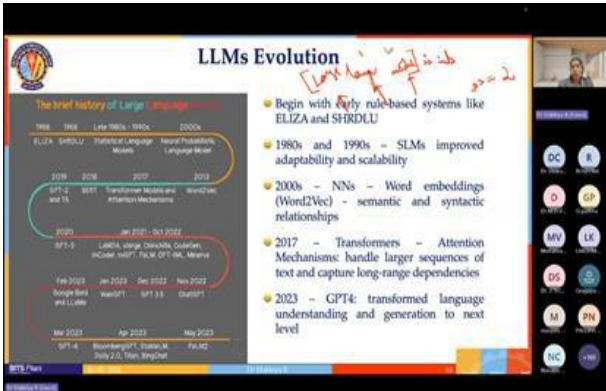
Session 1:

Topic Covered: Emerging Technologies in CS & IT

Resource Person: Dr. R. Elakkiya, Assistant Professor, Department of CSE, Birla Institute of Technology and Science

Dr R. Elakkiya, Assistant Professor, Department of CSE, Birla Institute of Technology and Science, gave insight on Problem-solving using Generative AI and Large Language Models by taking a practical example problem on Large Language Models. Along with this, she explained the evolution of GANs.

Session 2:

Topic Covered: Introduction to Machine Learning & AI

Resource Person: Dr. U. Srinivasulu Reddy, Associate professor in MCA, NIT, Tiruchirappalli

Dr. U. Srinivasulu Reddy, Associate professor in MCA, NIT, Tiruchirappalli, gave the session on the importance of machine learning and AI. He explained the role of AI and machine learning in real-time applications. He also covered the research areas in machine learning and AI.
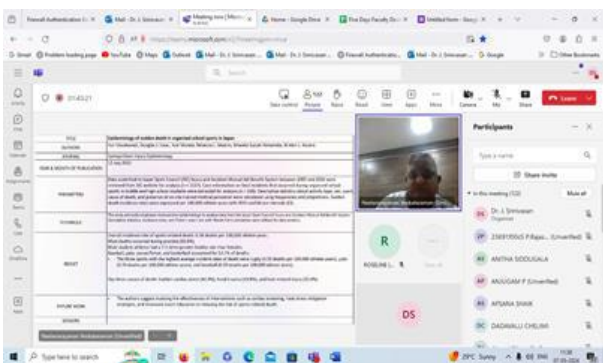

DAY 2 (07-05-2024)

Session 1:

Topic Covered: Machine Learning using Python Programming.

Resource Person: Dr V. Neelanarayanan, Professor, School of Computer Science and Engineering, VIT

Dr V. Neelanarayanan, Professor, School of Computer Science and Engineering, VIT, presented the session with hands-on training in Machine learning Algorithms using Python, and he explained the research topics in Machine Learning with real-time applications.
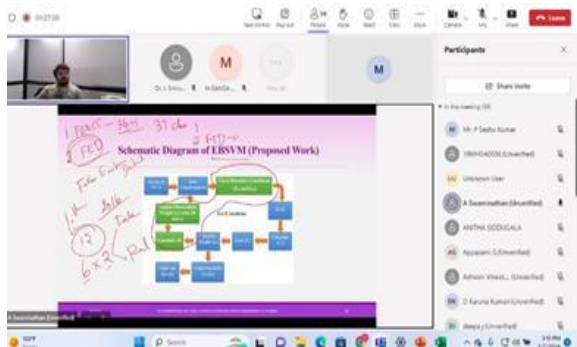
Session 2:

Topic Covered: AI with Python

Resource Person: Dr Swaminathan. A, Assistant Professor of the School of Computer Science and Engineering, VIT

Dr Swaminathan. A, Assistant Professor of the School of Computer Science and Engineering, VIT, gave insight into recent trends in AI in the industry by explaining the application of AI using Python programming.
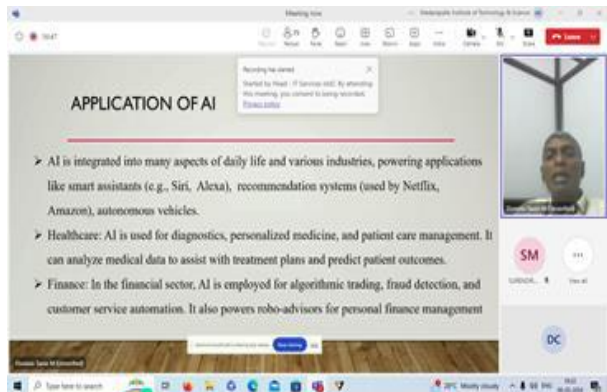

Day 3(08-05-2024)

Session 1:

Topic covered: Research areas in ML and AL.

Resource Person: Dr. M. Dominic Savio, Professor, School of Computer Science and Engineering, VIT

Dr. M. Dominic Savio, Professor, School of Computer Science and Engineering, VIT, presented the session on Machine Learning and AI research areas with real-time applications.
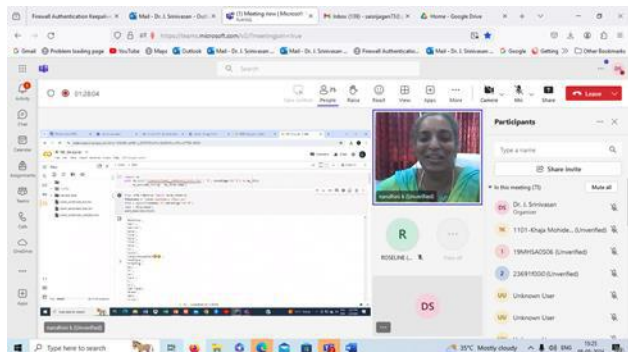

Session 2:

Topic Covered: Natural Language processing (NLP)

Resource Person: Dr. Nandhini Kumaresh, Assistant Professor, Computer Science, Central University of Tamil Nadu

Dr. Nandhini Kumaresh, Assistant Professor, Computer Science, Central University of Tamil Nadu, presented the session by explaining the importance of Natural Language Processing and types of Language, working and its application in real-world scenarios.

Day 4 (09-05-2024)

Session 1:

Topic Covered: IOT and its Application
Resource Person: Dr. G. Rajesh, Associate Professor, Department of Information Technology, MIT, Chennai

Dr. G. Rajesh, Associate Professor, Department of Information Technology, MIT, Chennai, Presented the session with hands-on training about IOT and its application by explaining the application in various fields like Agriculture, Medical, Image Encryption and Decryption, Remote Sensing, Image Forgery Detection, Robot path planning and many other.
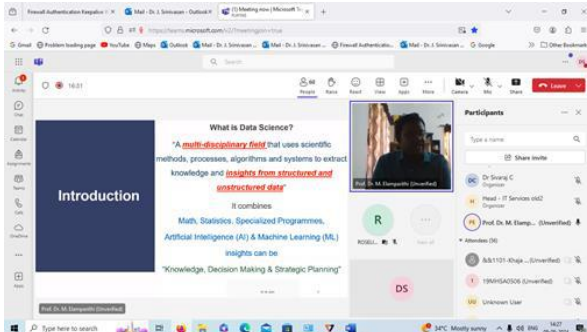

Session 2:

Topic Covered: Introduction to Data Science

Resource Person: Dr. M. Elamparithi, Director, Academics, Kamalam College of Arts and Science

Dr M. Elamparithi, Director, Academics, Kamalam College of Arts and Science, gave insight on the importance of Data Science by covering primary concepts like Data Mining vs Data Science, the Importance of Data Science, Fields of Data Science and Data Science Tools. He also explained the research topic on financial analytics, risk management, data privacy, and security.
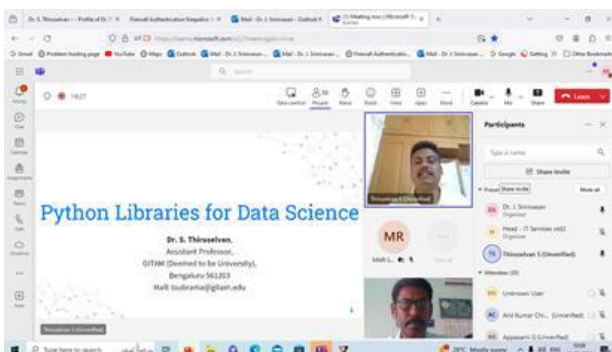

Day 5 (10-05-2024)

Session 1:

Topic Covered: Case study -Data Science using python Libraries

Resource Person: Dr. Thiruselvan. S, Assistant Professor, Department of CSE, GITAM University, Bangalore

Dr Thiruselvan. S, Assistant Professor, Department of CSE, GITAM University, Bangalore, presented the session by explaining the importance of Python Libraries with different Algorithm Techniques and its practical knowledge of how it works with real-world examples.

Valedictory Function:

The post-lunch valedictory function was conducted formally and virtually on the fifth day. Dr N. Naveen Kumar, HOD of Computer Applications, addressed the session. Participants were asked to share their experiences and learning of the whole program. Finally, Dr. Srinivasan Jagannathan delivered a vote of thanks. The program was concluded.

Programme Outcome:

This FDP helped the participants learn, experience, and explore the recent computer trends with different computational techniques for solving problems and Complex programming, along with understanding the importance of various technologies. Able to understand the working of recent computer technology trends and Machine learning techniques with Different Algorithms.

Participants List Summary:

Total number of Participants: 295
Foreign participants: 02
- Ghana: 01
- Eritrea: 01

Indian Participants: 293

Tamil Nadu: 56	Maharastra: 01
Andhra Pradesh: 228	Punjab : 01
Karnataka: 03	
Telangana: 03	
Gujarat:01	