



# School of Computer Information and Mathematical Sciences Department of Computer Science & Engineering One Week Faculty Development Programme(FDP) On

#### **Generative AI & AWS Cloud**

In association with

Imarticus Learning & Webx 360 Technology Solution

Date: 28th June 2024 to 3rd July 2024

#### **Programme Coordinators:**

Convenors:

Dr.E.Syed Mohamed, Professor, CSE

Dr. Sharmila Sankar, Dean(SCIMS)

Dr.S.Syed Abdul Syed, Professor, CSE

Dr.Aisha Banu W.,HOD/CSE

#### **Co-Coordinators:**

Dr. A.Alif Siddiqua Begum, Asst. Professor/CSE

Ms. S.M.Shifana Rayesha, Asst. Professor/CSE



#### **EVENT BROCHURE**





DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
In Association with Imarticus Learning Organizes

One week Online

# Faculty Development Programme(FDP) on

## **Generative AI & AWS Cloud**

28th June - 03rd July 2024 10:00 AM - 1:00 PM

Registration Fee: Rs. 300/-

Convenors:

Dr. Sharmila Sankar, Dean (SCIMS)

Dr. Aisha Banu W., HOD/CSE

SCAN TO REGISTER



Coordinators:

Dr. E.Syed Mohamed

Dr. S.Syed Abdul Syed

**Co-Cordinators:** 

Dr. A.Alif Siddiqua Begum

Ms.Shifana Rayesha

E-Certificate will be provided to all participants



#### **School of Computer Information and Mathematical Sciences**

#### Faculty development Programmme report(FDP)

Name of the FDP: Generative AI & AWS Cloud

Date: 28th June 2024 - 3rd July 2024

Total number of participants attended the FDP: 40

Department of Computer Science and Engineering, B S Abdur Rahman Crescent Institute of Science and Technology, in association with Imarticus Learning & Webx 360 Technology solution has organized a One week Faculty Development Programme on Generative AI & AWS Cloud held from 28.06.2024 to 03.07.2024.

The workshop was coordinated by Dr.E.Syed Mohammed, Professor/CSE, Dr.S.Syed Abdul Syed, Associate Professor/CSE, and co-coordinated by Dr. Alif Siddiqua Begum, and Ms. S.M. Shifana Rayesha.

#### **Objective of FDP**

- This FDP aims to provide an in-depth understanding of Generative AI & AWS Cloud, its tools, and applications.
- Hands-on experience with Generative AI tools and frameworks.
- Insights into the latest trends and advancements in AI technology.
- Deployment of Dynamic Web Application on AWS Cloud.



#### **Resource Person Description**

#### Mr.Harish Kumar



#### Lead Data Scientist, IRIS Software Group, India

Mr. Harish Kumar has more than 10 years of experience in Generative AI, Natural Language Processing(NPL), Deep Learning(DL). He is presently associated with IRIS Software Inc., as Lead Data Scientist.

#### Mr. Afzal Bijli FHM



**MEASI Institute of Information Technology, Chennai,** Asst. Professor,

Afzal has more than 10 years of experience in teaching undergraduate and postgraduate students of Computer Science Engineering and Computer Applications. His knowledge domain includes Cloud Computing, Website Development, Software Engineering, and Information Security.



#### Schedule for Online FDP - Generative AI & AWS Cloud

Day	Date	Time	Topic to be covered /Resource persons
1.	28.06.2024	9.00 to 9.30 am	Registration
		9.30 to10.00 am	Inauguration
		Resource Person	Mr. Harish Kumar, Lead Data Scientist, IRIS Software Group, UK
			Day 1(Session 1) - From Information to Knowledge in Generative AI
		11.15 to 11.30am	Tea Break
		•	<b>Day 1(Session 2) –</b> Generative AI opportunity, potential risks and challenges
2.	29.06.2024	Resource Person	Mr. Harish Kumar, Lead Data Scientist, IRIS Software Group, UK
			<b>Day 2 (Session 3) –</b> Dive into the world of Generative AI, LLMs and tools like ChatGPT
		11.15 to 11.30 am	Tea Break
			<b>Day 2 (Session 4) –</b> Prompt Engineering: ChatGPT quality output dependency on quality input.
3.			Mr. Afzal Bijli FHM, MEASI Institute of Information Technology, Chennai.
	01.07.2024		Day 3(Session 5) – Introduction to AWS Cloud and IMA(Identity Access Management)
		11.15 to 11.30 am	Tea Break
		•	<b>Day 3(Session 6)</b> – Static website deployment on AWS, S3 Bucket(AWS storage), usage of SSH & PUTTY software, Creating
			& managing private keys and AWS pricing walkthrough.



4.	02.07.2024	Resource Person	<b>Mr. Afzal Bijli FHM,</b> MEASI Institute of Information Technology, Chennai.
			<b>Day 4(Session 7)</b> – AWS Console basic walkthrough, ELB(Elastic Load Balancing) and ASG(Auto Scaling Group).
		11.15 to 11.30 am	Tea Break
			<b>Day 4(Session 8) –</b> Real-time implementation of ELB & ASG, dynamic web hosting, assigning Static IP address and Domain name
	03.07.2024		<b>Mr. Afzal Bijli FHM,</b> MEASI Institute of Information Technology, Chennai.
5.			<b>Day 5(Session 9)</b> – Case study of AWS Cloud, Opportuities and future direction
		11.00 to 4.00 pm	Feedback/Assessment/valedictory

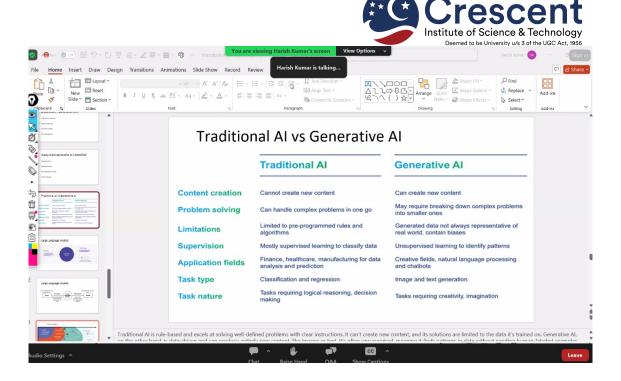
#### Day-1 (28.06.2024)

#### **Inauguration of FDP:**

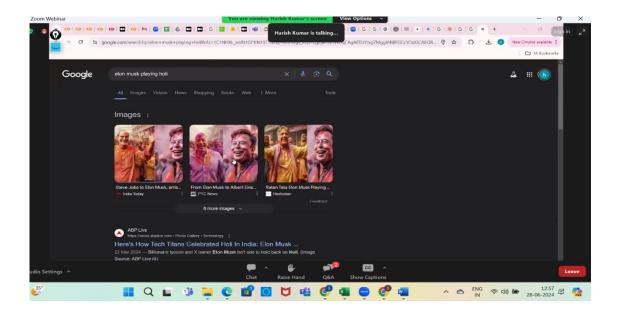
The inauguration was held on 28<sup>th</sup> June 2024 online at 9.30 am. **Dr. E.Syed Mohamed** Co-ordinator of FDP, Professor/CSE Department, B.S.A. Crescent Institute of Science & Technology welcomed the gathering.

#### Session 1:

Mr. Harish Kumar, the session's resource, educated the participants about the objective, importance and numerous sources of Generative Al literature. He states that Generative Al is still under development even though its trained to perform many kinds of tasks, including writing different kinds of creative content, translating languages and coding.

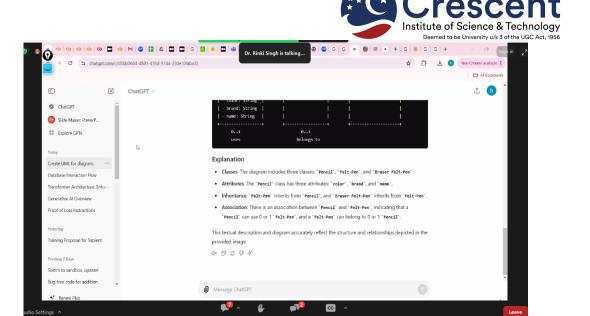


B.S. Abdur Rahman ™



#### Session 2:

Mr. Harish Kumar projected a clear knowledge of importance in Generative AI, how to develop them and how to communicate with them. The speaker believes that generative AI as an opportunity for most people but it is important to be aware of the potential risks and challenges. He addressed the fundamental ideas in technology, tying them to the most appropriate real-life situtations that are necessary for comprehending the technology.



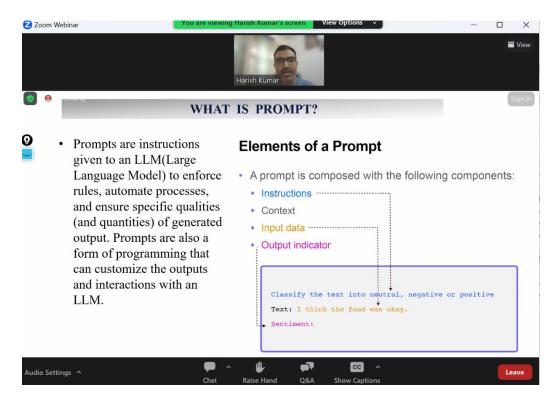
B.S. Abdur Rahman ™

Day-2

#### Session 3:

Mr. Harish Kumar discussed Generative AI tools and conducted a hands-on session using Gemini and ChatGPT and its application in extracting emails from our mail, providing textual summary of video content by passing its youtube link and so on. He demonstrated GPT-4 Turbo with vision capabilities as a large multimodal model(LMM) incorporating both natural language processing and visual understanding.

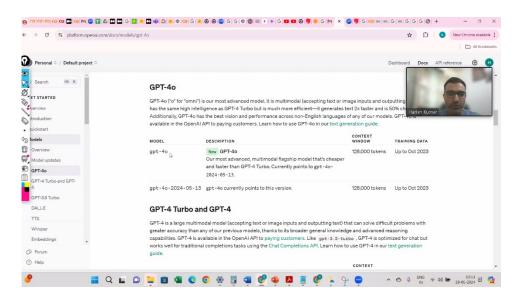
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#### Session 4:

Mr. Harish Kumar, the session's speaker, emphasized the importance of prompt engineering for Generative AI applications where the quality of ChatGPT outcome is based on writing a clear prompt instruction which consist of clearly stated roles and content for performing the task efficiently. He also outlined coding of ChatGPT Open API and building chatboard code through LangChain framework.

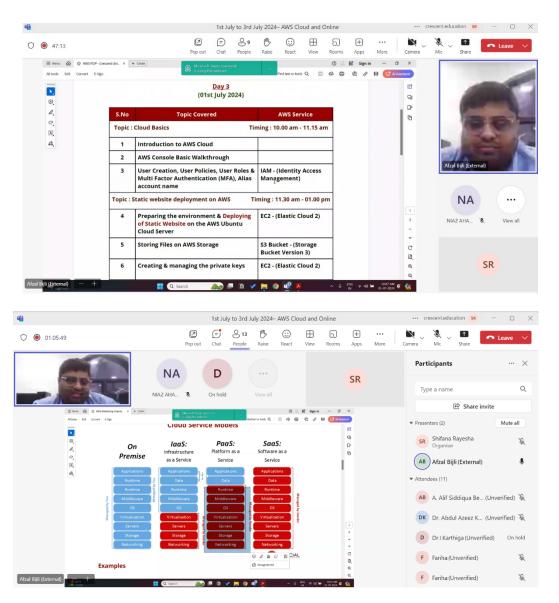




#### Day-3

#### Session 5:

The day 3 session was delivered by Mr. Afzal Bijli FHM, on "AWS Cloud". He gave introductionabout AWS(Amazon Web Services) cloud stating it as a "pay as you go" service with hands-on using user creation, policies and roles. During the session, he interacted with the audience by asking questions. The speaker highlighted Amazon Web Services(AWS) as the world's most comprehensive and boardly adopted cloud service.

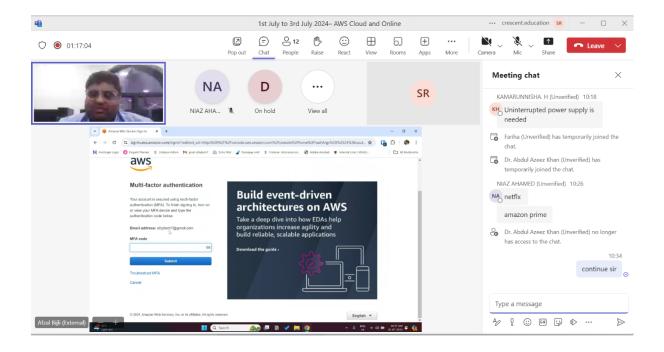


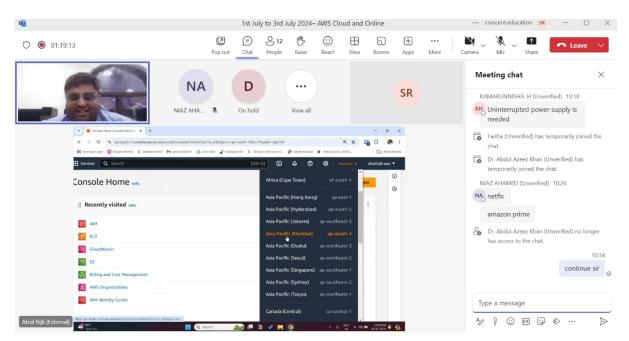
#### Session 6:

Mr. Afzal Bijli FHM, the session's speaker discussed the static website deployment on AWS hands-on training. Clearly described about S3(Simple Storage Service) bucket creation using AWS management console and how to use Putty-private key



to connect amazon EC2 linux instance. He also reviewed how to balance performance, availability and cost when selecting an AWS pricing model.



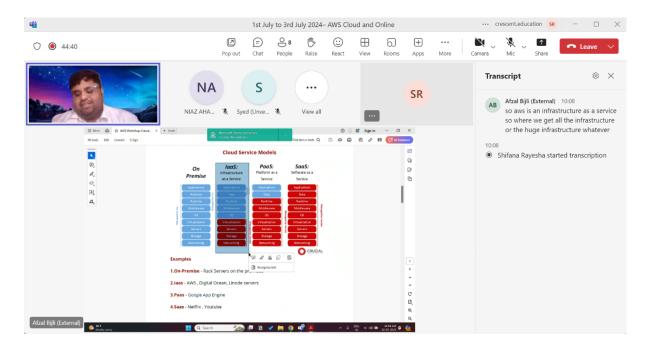


Day-4



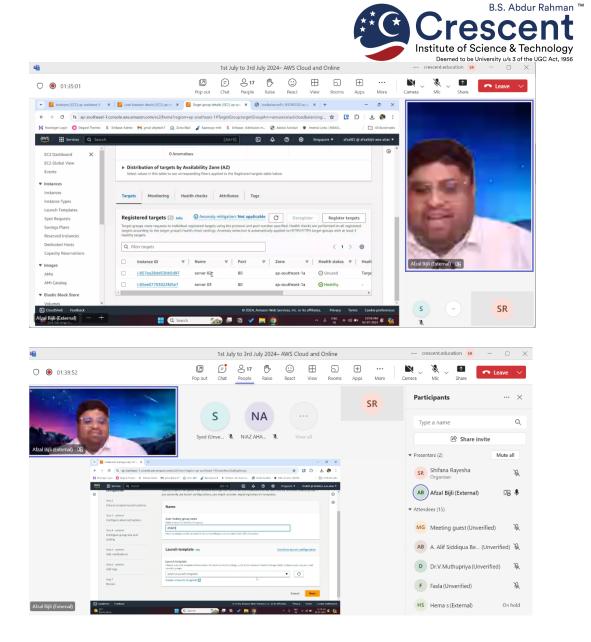
#### Session 7:

The fourth day of AWS Cloud program started with a session on "Elastic Load Balancing(ELB) and Auto Scaling Group(ASG)". The session was handled by Mr. Afzal Bijli FHM. The speaker started with a summary of previous session continuing with his hands-on session on ELB that monitor health of its registered targets, and route traffic only to the healthy targets. He gave brief introduction about AGS to scale cloud services based on defined situtions.



#### Session 8:

Mr. Afzal Bijli FHM, gave real-time demonstration of ELB and ASG by launching windows instance on AWS cloud, showcasting its magical outcome using real-life application scenario along with hosting dynamic web contents. The speaker highlighted the need for elastic IP address used by AWS to manage its dynamic cloud computing services and briefly discussed XAMPP open-source software package for developing and testing web applications.



#### Day-5

#### Session 9:

The last day of Generative AI and AWS Cloud Programme was concluded by Mr. Afzal Bijli. He summarized various technical aspects of AWS Cloud Service and discussed how they may be used in practical applications including case studies to ensure successful outcome. Later on, quiz was conducted for participants followed by feedback. The last session on AWS Cloud end with a valedictory function.

#### **Valedictory Session:**

The Valedictory Session of a week-long Faculty Development Program FDP on Generative AI & AWS Cloud, which received an overwhelming response from participants, came to a close. This unique user-friendly programme combines real-world bitcoin, practical hands-on sessions, and knowledgeable faculty and researchers. **Dr. S. Syed Abdul Syed**,

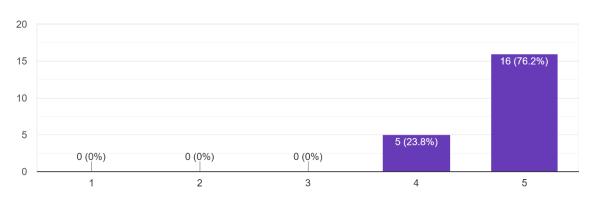


Associate Professor/Department of Computer Science and Engineering, BSACIST, gave vote of thanks in which he expressed his gratitude to all the dignitaries who took the time to share their knowledge with the participants. he expressed gratitude to IMARTICUS Learning & WEBXO 360 Technology solutions for their support for successfully conducting this Faculty Development Program. **Dr. E. Syed Mohamed** Professor/Department of Computer Science and Engineering Thanked the Dean, and the HoD for supported to conducted the Faculty Development Program. Finally, he thanked the resource person and participants for the participation.

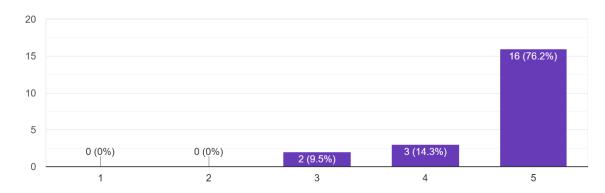
#### Feedback from the Participants:

#### Rate the Delivery of Speaker

21 responses



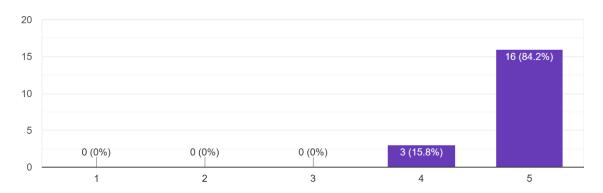
### Rate the clarity and organization of the sessions on AWS Cloud 21 responses





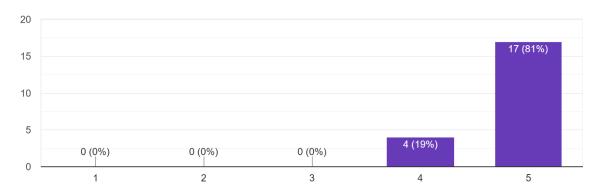
#### Rate the FDP Session [Content Quality]

19 responses

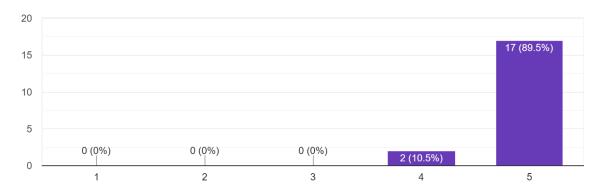


Whether the learning objectives of the FDP clearly communicated and achieved during the sessions

21 responses



Rate the clarity and organization of the sessions on  $\,$  Generative AI  $_{\rm 19\,responses}$ 





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19 responses

Good	
No	
Good	
Excellent	
Great	
nil	
Nil	
Please provide the recorded video for the first two days	

#### Any Suggestions?

21 responses

Nil No Good Good Very informative session Good for beginners Kindly share the ppts

Participants from various institutions were satisfied with the Faculty Development Program approach and expressed their gratitude towards the learning experience.

#### **List of Participants**

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