GM UNIVERSITY

(Established under the Karnataka State Act No. 19 of 2023)
Post Box no-4, PB Road, Davangere-577006

Faculty and Staff Enrichment Center (FASEC)

Faculty Development Program

On

"Azure Machine Learning"

17/08/2024

Resource Person

Mr. Nagaraj Benakanahalli
Senoir Analyst Infosys Pvt Ltd Mysore

Dr. Malathi S.Y
Associate Professor at KLE IT Hubli

Event coordinator
Miss.Shamina M. Attar
Director,School of Computer Science

Verified By
Dr. Shweta Marigoudar
Dean,FCIT

3.9.24
Approved by
Dr. Prakash S.V
IQAC-Director

Approved by
Dr. Praveen J
Dean-FASEC

Dr. H.D. Maheshappa
Pro- Vice Chancellor

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Faculty and Staff Enrichment Center (FASEC)

Contents

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Post Box no-4, PB Road, Davanagere-577006

Faculty and Staff Enrichment Centre (FASEC)

Date: 16-08-2024

To,
Dr. Praveen J
Dean-Faculty and Staff Enrichment Centre (FASEC)
GM University, Davanagere

Respected Sir,

Sub: Requesting to conduct "Faculty Enrichment Program"

Faculty Title	Faculty of Computing and IT
School Title	School of Computer Applications
Department	BCA/ B.Sc-AI/ B.Sc-DS
Name of the Dean	Dr. Shweta Marigoudar
Name of the Director	Prof. Rajashekhar G C
Name of the Head	Prof. Usha Narayan

Theme of the Activity	Faculty Enrichment Program
Name of the Activity	Azure in Machine Learning
Proposed Date	17-08-2024
Proposed Time	10.00AM-01.00PM
Venue	Computer Lab-2, Second Floor, GMSA
Name of the Resource Person	Mr. Nagaraj Benakanahalli & Mrs. Malathi S Y
Target Audience	FCIT and FET
Coordinator of the Event	Prof. Shamina Attar- 9742808701
Total No. of Registered till date	28

Prof. Usha N
Head of the Department

J/C
Prof. Rajashekhar G C
Director-SCA

I/c
Dr. Shweta Marigoudar
Dean-FCIT

Verified by
Dr. Praveen J
Dean FASEC

A.S.B (3 hrs)
16/8/24.

Approved by
16/08/24
Dr. H D Maheshappa
Pro- Vice Chancellor

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Labels

Requested FDP approved from Faculty and Staff Enrichment Center

Dr Praveen J Director - School of Engineering - SE Sat, Aug 17, 9:07 AM (11 day
to me, dir.sca, dir.scs

Good morning Madam,

Your request to conduct a Faculty Development Program on "Azure in Machine Learning"

on August 17th, 2024, from 10:00 AM to 1:00 PM has been approved by the Faculty and Enrichment Center.

Please ensure that all faculty members attend the event without fail.

Submit the complete report, as per the provided template, on or before August 22nd, 2024.

--
Warm regards

Dr. Praveen J
Dean - Faculty and Staff Enrichment Center
Director - School of Engineering
GM University, Davangere

GM UNIVERSITY

GM UNIVERSITY
E-mail: info@gmu.ac.in, Website: www.gmu.ac.in

GMU/DVG/TY/2024-25/ **Date: 14-08-2024**

Requesting Mail Letter to Resource Person

From,
HOD
Prof. Rajashekar00 G C
Director, School of Computer Applications, FCIT.
GM University.
Davangere.

TO,
Dr. Malathi S Y
Associate Professor,
KLE Institute of Technology,
Hubli.

Subject: Request to Conduct a Hands-On Session on Azure Machine Learning Concepts

Respected Dr. Malathi S Y,

I hope this message finds you well. My name is Prof. Rajashekar G C , and I am HOD Director, School of Computer Applications at FCIT. GM University. Davangere. We are keen to enhance our team's knowledge and skills in the area of machine learning, specifically focusing on Azure Machine Learning. As someone with extensive experience and expertise in this field, we would be honored to have you lead a hands-on session for our group.

The proposed session would provide an invaluable, opportunity for our participants to gain practical experience with Azure's machine learning tools and platforms, directly from an expert. We believe that your insights and guidance would greatly benefit our team's ability to implement machine learning solutions effectively.

Below are some suggested details for the session:

- **Date:** 17/8/2024
- **Time:** 10:00am
- **Location:** Venue GMS Auditorium
- **Topics to be covered:** Introduction to Azure Machine Learning, Building and Training Models, Deploying and Managing Models, and any other relevant topics you deem necessary.

We are flexible with the schedule and content and would appreciate any suggestions you have to ensure the session is both informative and engaging. Please let us know your availability and

if there are any specific requirements you may need for the session. We are committed to making this event a success and will provide any necessary support to facilitate it.

Thanking you,

Your's faithfully

HOD
Prof. Rajashekar G C
Director, School of Computer Applications, FCIT.
GM University.
Davangere

GMU/DVG/TY/2024-25/ **Date: 14-08-2024**

Requesting Mail Letter to Resource Person

From,
HOD
Prof. Rajashekar G C
Director, School of Computer Applications, FCIT.
GM University.
Davangere.

To,

Mr.Nagaraj.Benakanahalli
Senior Analyst at Infosys Pvt Ltd,
Mysore

Subject: Request to Conduct a Hands-On Session on Azure Machine Learning Concepts

Respected Mr.Nagaraj. Benakanahalli,

I hope this message finds you well. My name is Prof. Rajashekar G C, and I am HOD Director, School of Computer Applications at FCIT. GM University. Davangere. We are keen to enhance our team's knowledge and skills in the area of machine learning, specifically focusing on Azure Machine Learning. As someone with extensive experience and expertise in this field, we would be honored to have you lead a hands-on session for our group.

The proposed session would provide an invaluable, opportunity for our participants to gain practical experience with Azure's machine learning tools and platforms, directly from an expert. We believe that your insights and guidance would greatly benefit our team's ability to implement machine learning solutions effectively.

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We are flexible with the schedule and content and would appreciate any suggestions you have to ensure the session is both informative and engaging. Please let us know your availability and if there are any specific requirements you may need for the session. We are committed to making this event a success and will provide any necessary support to facilitate it.

Thanking you,

Your's faithfully

HOD
Prof. Rajashekar G C
Director, School of Computer Applications, FCIT.
GM University.
Davangere

Resource Person Acceptance Letter

From,
Dr. Malathi S Y
Associate Professor,
KLE Institute of Technology,
Hubli.

TO,
HOD
Prof. Rajashekar G C
Director, School of Computer Applications, FCIT.
GM University.
Davangere.

Subject: Confirmation for Conducting Hands-On Session on Azure Machine Learning Concepts

Respected sir,

I hope you are doing well. I am writing to express my gratitude for inviting me to conduct a hands-on session on Azure Machine Learning concepts at GM University, Davangere. I am excited about the opportunity to share my knowledge and experience with your team.

- I am happy to confirm my availability for the session on the proposed date17/8/2024. I will cover key aspects of Azure Machine Learning, including:

1. Introduction to Azure Machine Learning
2. Building and Training Models
3. Deploying and Managing Models
4. Practical applications and best practices

I will also bring some real-world examples and case studies to make the session more interactive and insightful. If there are specific areas of interest or any other topics you would like me to focus on, please let me know in advance.

Please provide me with any necessary logistical details or requirements to ensure the session runs smoothly. If the session is virtual, kindly share the platform details and any access credentials needed.

Once again, thank you for this opportunity. I look forward to an engaging and productive session with your team.

Thanking you,

Your's faithfully
Dr. Malathi S Y
Associate Professor,
KLE Institute of Technology,
Hubli

RESUME

5

Name : **Malathi S Y**

Address for Communication : Malathi S Y

Associate Professor

Department of Computer Science

Huballi-580030

Mobile:9964875221

Email: malathisy@kleit.ac.in

Date of Birth : 24/07/1991

Qualification : Ph.D. (CSE),M.Tech. (CSE), B.E(CSE)

Present Status : Assistant Professor

Sl. No	Degree	University/Institution/Board	Year of Passing	Class	Specialization
1	Ph. D	KLE Institute of Technology, Hubballi	2024	-	Deep Learning
2	M.Tech	Kalpataru Institute of technology, Tiptur	2015	First class with distinction	Computer Science and Engineering
3	B. E	Alvas Institute of engineering and technology, moodibidri	2012	First class	Computer Science and Engineering

Teaching Experience: 8+ years

Sl. No.	**Name of the employer**	**From**	**To**	**Years/months**	**Designation**
1.	Anjuman Institute of Technology & Management, Bhatkal	05-05-2012	31-05-2013	1 year	Assistant Professor
2.	Anjuman Institute of Technology & Management, Bhatkal	29-02-2015	31-05-2018	3 year 3 months	Assistant Professor
3.	Jain College of Engineering & Technology, Hubballi	09-10-2019	09-04-2022	2 year 5 months	Assistant Professor
4.	KLE Institute of Technology, Hubballi	11-04-2022	Till date	Till date	Assistant Professor

GRANTS RECEIVED/SANCTIONED

TITLE OF THE PROJECT	FUNDING AGENCY	GRANT TYPE	AMOUNT	YEAR
AI based Arecanut grading system	MSME	MSME Women Hackthon	1500000	2024

Scopus Indexed/Quartile Journals:

[1].**Malathi S Y**, Geeta R B "Classification of Knee X-Ray Images by Severity of Osteoarthritis Using Skip Connection Based ResNet101 ", published in the International Journal of Intelligent Engineering & Systems with Vol. No 16, Issue No 5, Page No. 738 Impact factor 1.90 and year of publication 2023, published by The Intelligent Networks and Systems Society with DOI: 10.22266/ijies2023.l031.62.

[2]. **Malathi S Y**,Geeta R B "A Novel Method on CNN-LSTM to Characterize Knee Osteoarthritis from Radiography", published in Proceedings of the National Academy of Sciences, Biological Sciences(NASB),published by springer with DOI:10.1007/s40011-023-01545-5.

[3]. **Malathi S Y**, Geeta R B "A predictive Modelling for characterization and grading of knee Osteoarthtis using Machine Learning Algorithms: A Study in Early Diagnosis and Prognosis'', published in the Journal of Electrical Systems with Vol. No 20, Issue No 5s Page No. 1 and year of publication 2024 with DOI: 10.52783/jes.cims.1828.

[4]. Sharada K S, Geeta R.B, Manohara K K, **Malathi S Y**, "Insight Analysis of Deep Learning and a Conventional Standardized Evaluation System for Assessing Rice Crop's Susceptibility to Salt Stress during the Seedling Stage" S N Computer Science,ISSN: 2661-8907,Dec 2023 with DOI:10.1007/s42979-023-02168-3.

[5]. Malathi S Y, Geeta R.B, Shashikumar Totad, "A survey on Multispectral Imaging: Applications for Medical Diagnostics" International Journal of Pure and Applied Mathematics, ISSN:1314-3395, Vol. 120 No.6, June 2018, pp 721- 726, https://acadpubl.eu/hub/2018-120-6/1/49.

[6]. A research article titled "Diagnosing And Grading Knee Osteoarthritis From X-ray Images Using Deep Neural Angular Extreme Learning Machine", in Proceedings of the Indian National Science Academy(PINSA) with ISSN: 2454-9983(Accepted).

Scopus Indexed International Conferences:

[1]. Presented a research article titled "Predictive Models for the Early Diagnosis and Prognosis of Knee Osteoarthritis Using Deep Learning Techniques" in the Conference ISCComm-2023

(INTERNATIONAL CONFERENCE ON INTELLIGENT SYSTEMS IN COMPUTING AND COMMUNICATION) is held on Dec 08 and Dec 09,2023 at Mangalore Institute of Technology & Engineering (MITE).

[2]. Presented a research article titled "Predicting Salinity Resistance of Rice at the Seedling Stage: An Evaluation of Transfer Learning Methods" in the Conference ISCComm-2023(INTERNATIONAL CONFERENCE ON INTELLIGENT SYSTEMS IN COMPUTING AND COMMUNICATION) is held on Dec 08 and Dec 09,2023 at Mangalore Institute of Technology & Engineering (MITE).

[3]. Presented a research article titled "Dataharbor WFH: Decoding remote work challenges with AWS analytics." In conference of CODE-AI (INTERNATIONAL CONFERENCE ON DATASCIENCE & EXPLORATION IN ARTIFICIAL INTELLIGENCE) 2024 at Manipal Institute of Technology, Bangalore.

Industrial Exposure

Course Name	**Duration**	**Training Agency**
Hyperspectral Remote Sensing	22-07-2024 to 26-07-2024	ISRO NRSC Hyderabad
Wipro Certified Faculty Program	03-07-2022 to 17-10-2022	Wipro TalentNext
JAVA Full Stack Development	23-01-2023 to 10-02-2023	Wipro TalentNext
Advanced Technology Program on Cloud Computing	11-09-2023 to 15-09-2023	Wipro TalentNext
Advanced Technology Certified Faculty (ATCF) on Cloud Computing	26-10-2023 to 12-02-2024	Wipro TalentNext

Student Project Proposal Approved for Sponsorship:

Project Name	**Funding Agency**	**Year**

Estimation of Yellow Rust Severity in Wheat using Machine Learning Models	KSCT	2024

Membership Of Professional Bodies:

SI	Professional Organisation	Membership Number	Category
1	Association for Computing Machinery	6473305	Member
2	The Institution of Engineers		Member

Topics of Teaching & Research:

- Principles of Programming Languages.
- Database Management System
- Design and Analysis of Algorithms.
- Advanced Data Structures.
- Object oriented Analysis and Design.
- Artificial Intelligence and Machine Learning
- Computer Graphics & Visualization
- Data Mining & Data Warehousing
- Big Data Analytics
- Introduction Python Programming
- Deep Learning
- NO SQL
- Data Science

Declaration

I hereby declare that all the statements made in the application are true, complete and correct to best of my knowledge and belief.

Place: Hubballi

Date: (Dr. Malathi S Y)

Nagaraj Benakanahalli

#44. MIG, Laxmikant Nagar,
Hebbal 1st Stage,
Mysore - 570016.
nagarajmb1@gmail.com
+91-9916253054

Senior Analyst – Learning (Java Full Stack Development)
2 Years experience in Learning and Development,
12 Years experience in Training & Development

Highly Effective Senior Member who is responsible for development of Java full stack applications and training fresh and experienced employees in Java full stack development.

CAREER EXPERIENCE

Infosys Limited, Mysore **June 2022 – till date**
Senior Analyst – Learning (Java Full Stack Development)

Roles and Responsibilities:

- Developed applications which are used for training, assessment and evaluation across the organization.
- Provide hands-on training in Java full stack development.
- Served as technical and educational pedagogic trainer for the for fresh and experienced employees.
- Prepare the trainers to deliver training on Java full stack development. (Backend and Frontend)
- Drafting and aligning curriculum with industry needs to universities / autonomous engineering colleges through board of studies meet at institution and university level.

EARLIER ASSIGNMENTS

KLE Technological University, Hubli / Asst Professor **May 2012 – June 2022**
(Earlier known as BVB College of Engineering and Technology)

Roles and Responsibilities:

- Handled subjects: Object oriented Programming using Java, Database Management Systems, Unix and Shell Programming, Industrial Data Networks, Software Engineering, CIM and PLM, Control Systems, Mechatronics System Design etc.
- Taught and facilitated hands-on learning experiences in the use of different software tools, such as VS Code, MATLAB and Simulink, Eclipse, Oracle 10g, MySql, Microsoft SQL server 2008 Solidworks, and PLM 2013x (Enovia and Catia).
- Mentor students on the process of developing a capstone project, from ideation to completion.
- Served as the Board of Studies member at KLE Technological University, where I helped to develop and refine the engineering curriculum.
- Developed video learning materials using the university's recording resources during the COVID-19 pandemic.
- Was responsible for the day-to-day management of the department servers and the maintenance of all software installed on the servers.

- Handled subjects: Java and J2EE, C# Programming and .NET, Database Management Systems, Unix and Shell Programming, Data Structures and Algorithms using C, Software Engineering, Unix Systems Programming, Microprocessors (8086), System Software etc.
- Ensured the smooth running of the IT systems and applications used by the department.
- Mentor students on the process of developing a capstone project, from ideation to completion.

FlexImage Technologies, Bangalore / Java Developer **Aug 2009 – Feb 2010**

- Developed one of the modules of Flex-ERP application using Java.

SKILLS SETS

Programming Languages	: Java, C, C++, C# and .NET
Backend	: Spring Boot, REST API
Frontend	: HTML, CSS, TypeScript and Angular
RDBMS Software	: Oracle 10g, MySql, Microsoft SQL server 2008
Modeling and Simulation software	: MATLAB and Simulink
Automation software	: TwinCAT (Beckhoff Automation), Automation Studio
PLM Software	: PLM Enovia-2013x (Enovia and Catia)
Professional Development	: Problem Solving, Multi-tasking
CAD	: SOLIDWORKS and CATIA

ACADEMIC CREDENTIALS & CERTIFICATIONS

Education

2009	M.Tech. (Information Technology) from National Institute of Engineering, Mysore, Visvesvaraya Technological University with CGPA of 8.82
2007	B.E. (Mechanical) from SDM College of Engineering and Technology, Dharwad, Visvesvaraya Technological University with 68.14%.
2001	Diploma in Tool and Die Making, from GTTC, Belgaum with 79.77%
1996	10th from R.L.S High School Dharwad with 78.66%

Coursera Certifications:

- Object Oriented Programming in Java.
- AI for every one
- Control of Mobile Robots
- 3D Printing applications
- Digital Manufacturing and Design Technology (Specialization)
- Understanding Research Methods
- Mastering Digital Twins

NVIDIA Deep Learning Institute certification:

- Fundamentals of Deep Learning for Computer Vision

WORKSHOPS / TRAININGS ATTENDED

- Attended 10 days training at MATLAB Bangalore.
    1. Control System Design with MATLAB and Simulink.
    2. Modeling Physical Systems with Simscape.
    3. Simulink Model Management and Architecture.
    4. Real-Time Testing with Simulink Real-Time and Speed-goat Hardware.

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Labels

FDP on "Azure in Machine Learning" Under Faculty and Staff Enrichment Center

External Inbox ×

Dr Praveen J Director - School of Engineering - SE Sat, Aug 17, 9:15 AM (11 days ago)
to sr.dean, dean.fet, me, dean.res, dean.fbas, dir.scst, dir.gmsas, Principal, Dr, dir.sa, dir.sas, dir.sm, dyreg, dir.casp, TEJASVI, dir.sca,

Good morning everyone,

This is to inform all Deans, Directors, and Heads that the Department of BCA/B.Sc-AI/B.Sc-DS, School of Computer Applicat
Computing and IT (FCIT),

under the Faculty and Staff Enrichment Center (FASEC), is conducting a Faculty Development Program on "Azure in Machin

The program will be held on 17th August 2024, from 10:00 AM to 1:00 PM at the Computer Lab-2, Second floor, GMSA.

Kindly inform your faculty members about this event. Interested faculty members can register for the FDP by contacting the c
Prof. Shamina Attar, at 9742808701.

Resource Person : Mr. Nagaraj Benakanahalli & Mrs. Malathi S Y

–
Warm regards

6

Srishyla Educational Trust®

GM UNIVERSITY

P B Road, Davanagere

FACULTY OF COMPUTING & INFORMATION TECHNOLOGY

FACULTY ENRICHMENT PROGRAM

ON

Azure Machine Learning

Date: 17th August, 2024 ***Venue: G M S Auditorium*** ***Time: 10.00am***

WELCOME SPEECH	-Ms. Nimisha C B Asst. Prof., FCIT
RESOURCE PERSON INTRODUCTION	-Ms. Teja H Asst. Prof, FCIT Mrs. Swathi D M Asst. Prof, FCIT
RESOURCE PERSON	-Mr. Nagaraj Benakanahalli Senior Analyst at Infosys pvt ltd Mysore. -Dr. Malathi S Y Asso. Prof., KLE Institute of Technology, Hubli.
PRESENCE	-Mr. Shivakumar G J, AAO, GMSAFGC -Dr. Maheshappa H D, Pro-VC, GMU -Dr. Praveen J, Dean FASEC -Dr. Shweta Marigoudar, Dean, FCIT
VOTE OF THANKS	-Ms. Anu V B Asst. Prof., FCIT
MASTER OF CEREMONY	-Mrs. Sayeda Anjum Asst. Prof., FCIT

*****THANK YOU*****

GM UNIVERSITY

FACULTY AND STAFF ENRICHMENT CENTER

FACULTY OF COMPUTING AND IT

ORGANIZING

FACULTY ENRICHMENT PROGRAM

AZURE MACHINE LEARNING

DR. MALATHI S.Y

MR. NAGARAJ BENAKANAHALLI

17 AUGUST 2024

10:00 AM

VENUE

GMS AUDITORIUM

www.gmu.ac.in

Timestamp	Name of Participant	Department	Mobile No	Intere
8/12/2024 22:42:56	Manju	Fict	9845148524	YES
8/12/2024 22:52:32	Geetha R	FCIT	9108437212	YES
8/12/2024 23:40:41	Dr.Shankarayya Shastri	CSE	94801 06988	YES
8/12/2024 23:40:49	Nanditha G	CSE	7019144210	YES
8/12/2024 23:41:49	Nayana.K	CSE	9945692143	YES
8/12/2024 23:42:39	Dr. Asha K	AIML	9886997564	YES
8/13/2024 0:56:28	Ranjitha D S	CSE	9164066050	YES
8/13/2024 1:17:11	Shivaranjani S.S	AIML	9964447092	YES
8/13/2024 1:35:34	Santoshkumar M	Computer science and engineering	9242163128	YES
8/13/2024 1:55:10	Imran Khan	ISE	8073109504	YES
8/13/2024 2:19:54	Sandeepa G S	Cse	9731708485	YES
8/13/2024 3:40:29	Usha N	FCIT	7411670282	YES
8/13/2024 16:53:26	Sujata Eresimi	Electrical and Electronics Engineering	9110498751	YES
8/13/2024 17:29:12	Chaitra SB	Ece	7899036563	YES
8/13/2024 22:02:50	Nimisha C B	FCIT	8971402245	YES
8/13/2024 22:04:54	Rajashekhar G C	School of Computer Application	09663861398	YES
8/13/2024 22:48:20	Mrs.Megha M	FACULTY OF COMPUTING AND IT	9448728102	YES
8/13/2024 22:48:32	Swathi D Mahindrakar	FCIT	9986634377	YES
8/13/2024 22:48:33	Prof.Sayeda Anjum	FCIT	9986960105	YES
8/13/2024 22:48:38	Suhasini S	FCIT	9113586467	YES
8/13/2024 22:48:45	ANU V B	MCA	7411852059	YES
8/13/2024 22:48:50	Teja H	FCIT	8550830462	YES
8/13/2024 23:50:44	Shamina M.Attar	FCIT	9742808701	YES
8/13/2024 23:51:31	Shilpa R N	AIML	7411740162	YES
8/14/2024 0:21:37	Satish K	FCIT	9480620680	YES
8/14/2024 1:20:36	Sidramappa B	AIML	7795017462	YES
8/14/2024 23:39:01	Abhilash LN	Robotics and Automation	7760465600	YES
8/15/2024 19:41:51	Varun k s	FCIT	7815908752	YES
8/15/2024 20:07:23	Mrs. Manjula K	FCIT	9380017374	YES
8/15/2024 20:07:50	Mrs. MANJULA K	FCIT	9380017364	YES

(9)

FACULTY OF COMPUTING & IT

FACULTY ENRICHMENT PROGRAM

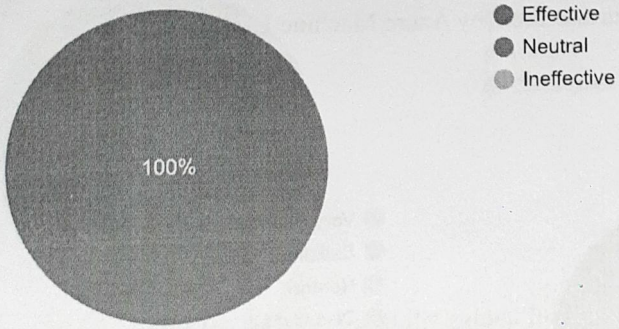
Topic: Azure Machine Learning **Date: 17-08-2024**

Sl No.	Name of the Faculty	Department	Signature
1	Dr. Asha K	AIML	
2	Shilpa R N	AIML	
3	Shivaranjani S.S	AIML	Meeting
4	Sidramappa B	AIML	
5	Santoshkumar M	CSE	Class
6	Dr.Shankarayya Shastri	CSE	Meeting
7	Nanditha G	CSE	
8	Ranjitha D S	CSE	
9	Sandeepa G S	CSE	
10	Nayana.K	CSE	Class
11	Chaitra SB	ECE	
12	Sujata Eresimi	EEE	Meeting
13	Anu V B	FCIT	
14	Geetha R	FCIT	
15	Manju	FCIT	
16	Manjula K	FCIT	
17	Megha M	FCIT	
18	Nimisha C B	FCIT	
19	Rajashekhar G C	FCIT	
20	Satish K	FCIT	
21	Sayeda Anjum	FCIT	
22	Shamina M.Attar	FCIT	
23	Suhasini S	FCIT	
24	Swathi D Mahindrakar	FCIT	
25	Teja H	FCIT	
26	Usha N	FCIT	
27	Varun K S	FCIT	
28	Imran Khan	ISE	
29	Abhilash LN	RA	

Faculty Development Program-"Azure Machine learning"
10 responses
Publish analytics
Email10 responses
ushan.fcit.sca@gmu.ac.in
rajasekargc@gmail.com
satish.kabbinada@gmail.com
geethar.mca@gmail.com
anjum.galaxy@gmail.com
shaminaattar2@gmail.com
nimishacb.fcit.scs@gmu.ac.in
Varunks.fcit.scs@gmu.ac.in
meghamurthy004@gmail.com
manjulak.fcit.sca@gmail.com

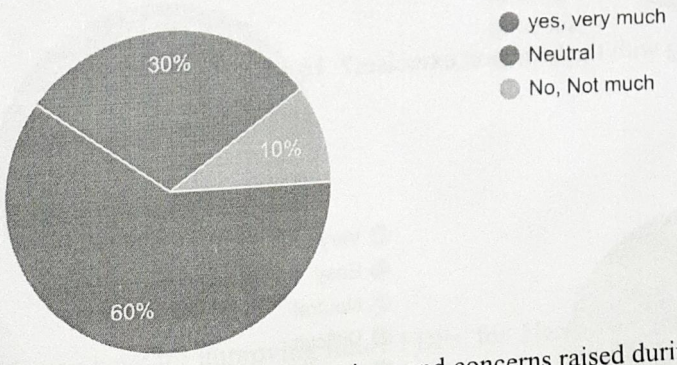
1. How effective were the teaching methods and materials used during the FDP?10 responses

Copy



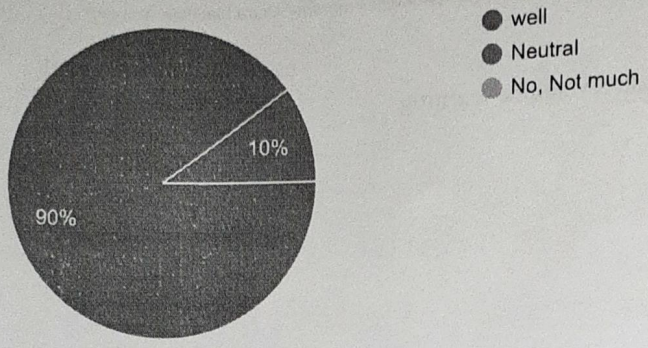
2. Did the FDP provides you with practical tools and strategies for writing course outcomes?10 responses

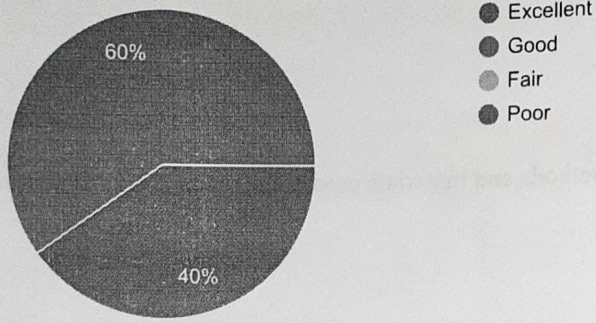
Copy



3. How well did resource person address questions and concerns raised during session ?10 responses

Copy





5. How satisfied are you with the features offered by Azure Machine Learning?
10 responses

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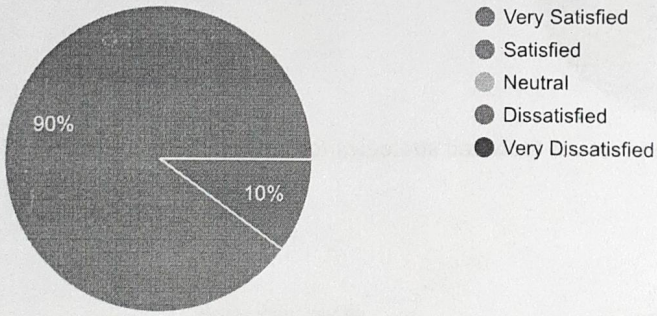

6. How easy was it to follow along with the hands-on exercises? 10 responses

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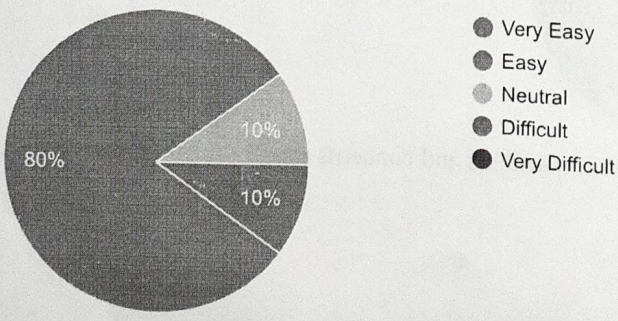

7. How likely are you to apply the knowledge and skills gained from the FDP in your subjects?10 responses

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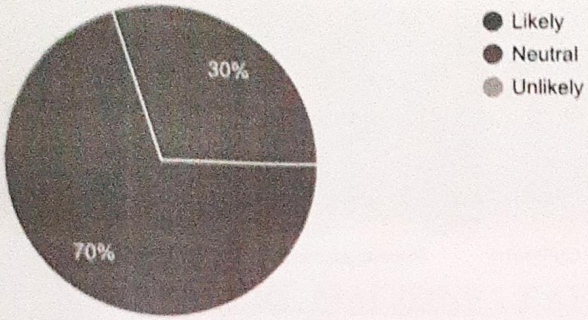

8. How would you rate your overall satisfaction with Azure Machine Learning?
10 responses

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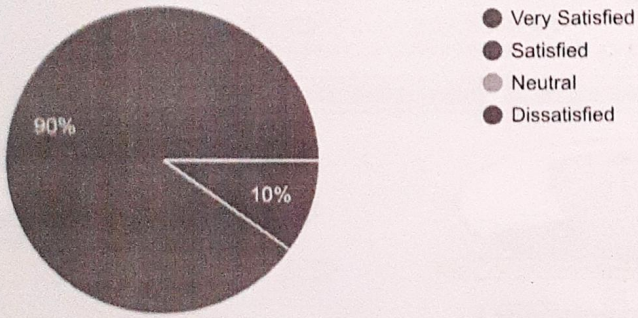

9. How likely are you to apply the knowledge and skills gained from the FDP in your subjects?10 responses

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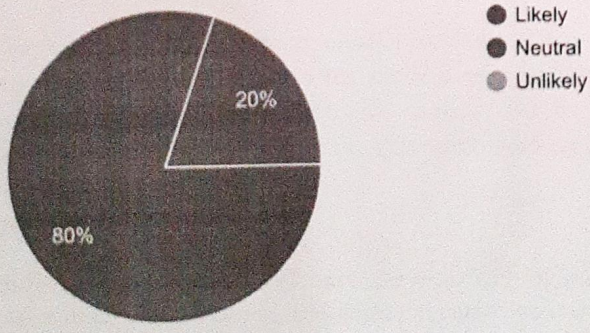

What Suggestion do you have for improving future FDPs. for Hands on session ?10 responses

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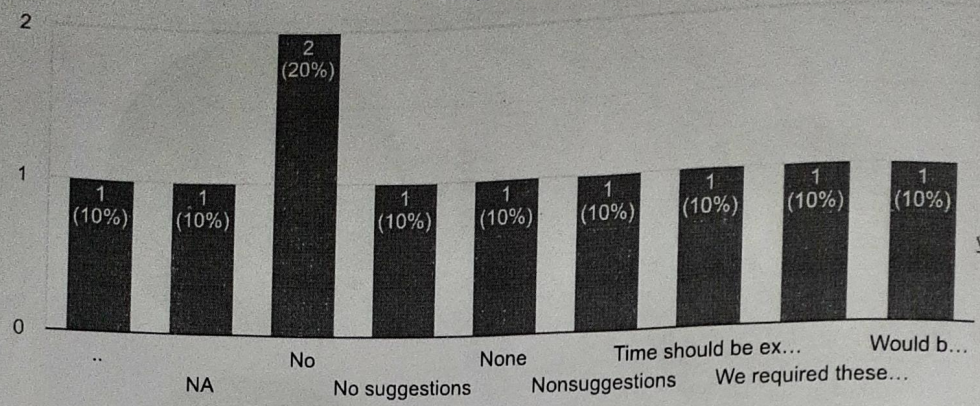
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"AZURE MACHINE LEARNING"

The Azure Machine Learning (AML) hands-on session provided participants with an in-depth experience of using Microsoft's cloud-based platform for developing, training, and deploying machine learning models. The session began with an introduction to AML, highlighting its capabilities and how it fits into the broader ecosystem of Azure services.

Introduction

- **Objective:** To provide hands-on experience with Azure Machine Learning, covering the basics of creating, training, and deploying machine learning models using Azure ML services.

Agenda

- Introduction to Azure Machine Learning
- Setting up the Azure ML Environment
- Creating a Workspace in Azure ML
- Data Preparation and Data Upload
- Building and Training Models
- Evaluating Models
- Deploying Models
- Monitoring and Managing Models
- Hands-on Exercise: A Case Study
- Q&A and Wrap-up


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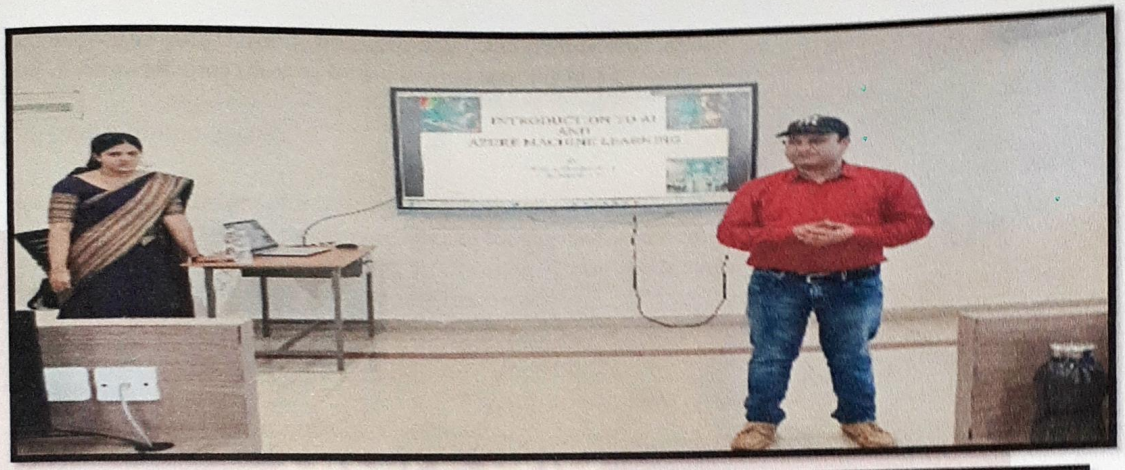
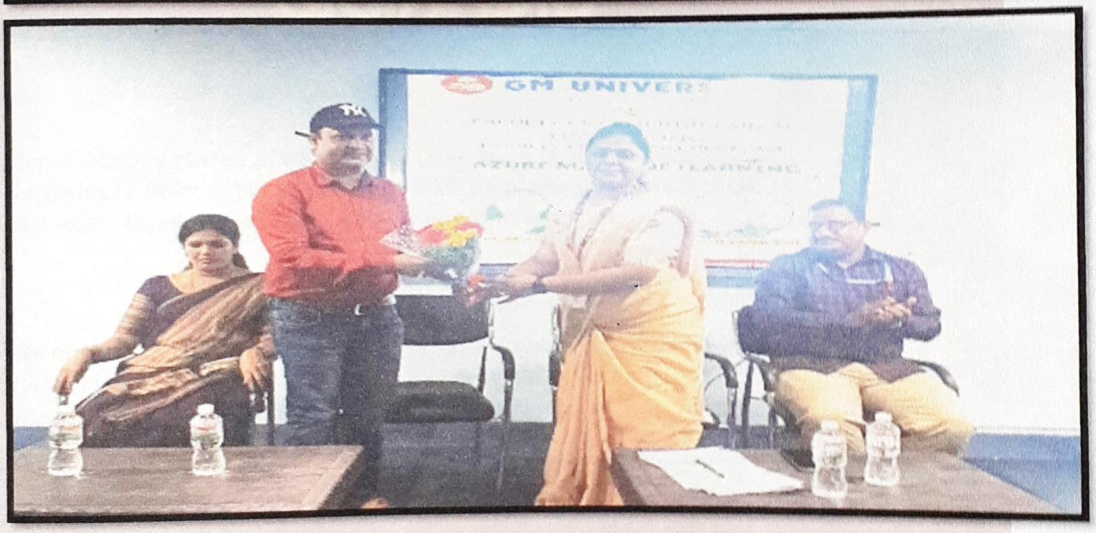




c. *Creating a Workspace in Azure ML*

- Step-by-step process for creating and configuring an Azure ML Workspace.
- Linking the workspace with other Azure services for a seamless workflow.

d. *Data Preparation and Data Upload*

- Hands-on practice with uploading datasets to the Azure ML Workspace.

- Techniques for data cleaning, transformation, and feature engineering.
- Use of Azure ML Data Labeling for supervised learning tasks.

e. Building and Training Models

- Use of Azure ML Designer for building models visually.
- Introduction to AutoML for automated model training and selection.
- Writing and executing custom training scripts using Python and Jupyter Notebooks.
- Training models using Azure ML Compute resources.

f. Evaluating Models

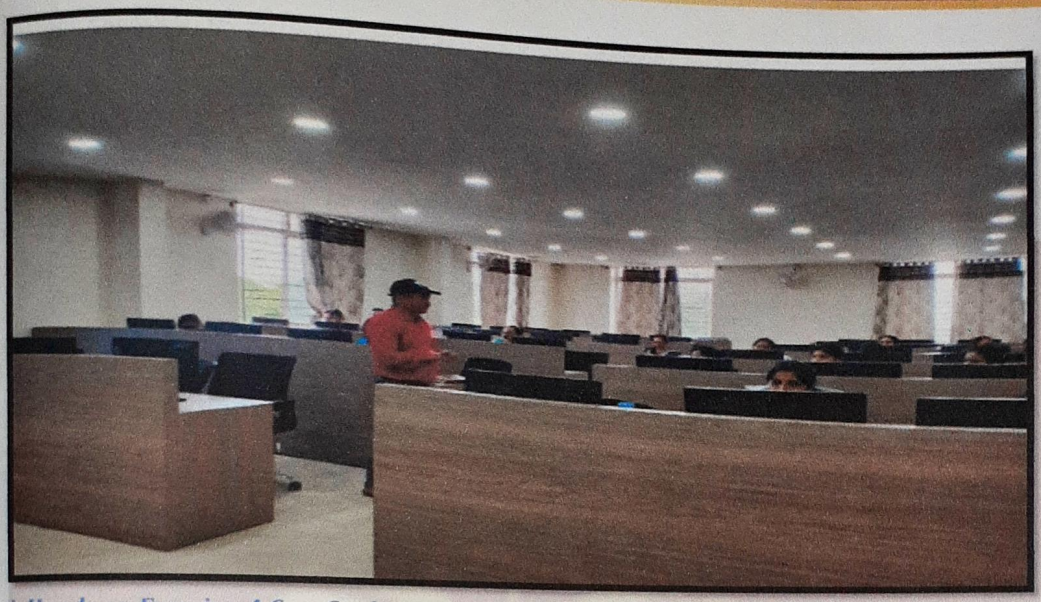
- Techniques for evaluating model performance.
- Use of metrics like accuracy, precision, recall, F1-score, and confusion matrix.
- Visualizing model performance using built-in Azure ML tools.

g. Deploying Models

- Steps to deploy models as web services using Azure Container Instances (ACI).
- Deploying to Azure Kubernetes Service (AKS) for production-scale models.
- Testing deployed endpoints for predictions and integrations.

h. Monitoring and Managing Models

- Use of Azure ML tools for monitoring model performance post-deployment.
- Retraining and updating models based on performance data.
- Managing model versions and maintaining a model registry.



i. Hands-on Exercise: A Case Study

- Application of the skills learned to a real-world problem (e.g., predicting customer churn, image classification).
- Collaboration in teams to build, train, and deploy a model using Azure ML.

j. Q&A and Wrap-up

- Open floor for questions, feedback, and discussion on best practices.
- Summary of key takeaways and future learning resources.

4. Outcomes

- Participants gained practical experience in setting up and using Azure ML.
- Successful creation, training, and deployment of machine learning models.
- Enhanced understanding of end-to-end machine learning workflows in Azure.

5. Challenges and Solutions

- **Challenge:** Initial setup and configuration issues with Azure ML Workspace.
    - **Solution:** Provided detailed walkthrough and troubleshooting tips.

- **Challenge:** Model training errors due to incompatible data formats.
  - **Solution:** Demonstrated data preprocessing techniques to ensure compatibility.

6. Feedback and Recommendations

- Participants found the hands-on approach very effective for learning.
- Suggestion to include more case studies and real-world scenarios.
- Recommendation to have pre-configured environments to save setup time.

7. Conclusion

- The session successfully met its objectives, providing participants with a solid foundation in Azure Machine Learning.
- Follow-up sessions could focus on advanced topics like deep learning, model optimization, and integration with other Azure services.

Overall, the hands-on session provided a comprehensive view of using Azure Machine Learning for end-to-end machine learning projects. It demonstrated the power and flexibility of AML in managing the entire machine learning lifecycle, from data preparation and model training to deployment and monitoring. The practical experience gained during the session equipped participants with the skills to leverage Azure's machine learning capabilities effectively, preparing them for real-world applications in various industries.