ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY
(Unit of Alva's Education Foundation (R), Moodbidri)
Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE, New Delhi.
Recognized by Government of Karnataka
A+, Accredited by NAAC & NBA (ECE & CSE)
Shobhavana Campus, MIJAR-574225, Moodbidri, D.K., Karnataka
Ph: 08258-262725, Mob:7022627247026262725,mail:principalaiet08@gmail.com

Department of Artificial Intelligence and Machine Learning

AIET/AIML/AY2022-23/1

Date- 15/5/2023

Circular

All the 3rd year students from AIML department informed to attend the workshop on Creating Your First Resource on Microsoft Azure by resource person Mr. Vinod Kumar, CEO of NaVinod Technologies, Mangalore on 18/5/23. Hence everyone have to be present in the mentioned venue at 10.45AM sharp.

Venue: AIML Lab

15/05/2023.

HOD

Principal

PRINCIPAL
Alva's Institute of Engg. & Technology,
Mijar, MOODBIDRI - 574 225, D.K.

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Principal office
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AIML Dept
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Resource Person - :Mr. Vinod , CEO of Aykan Software.

Topic: Microsoft Azure

Objective:

To give the brief idea on Cloud Computing of Azure.

Topics Covered:

Microsoft Azure is a cloud computing platform that provides a wide variety of services that we can use without purchasing and arranging our hardware. It enables the fast development of solutions and provides the resources to complete tasks that may not be achievable in an on-premises environment.

Microsoft Azure is a growing set of cloud computing services created by Microsoft that hosts your existing applications, streamline the development of a new application, and also enhances our on-premises applications. It helps the organizations in building, testing, deploying, and managing applications and services through Microsoft-managed data centers.

It is essential to understand the internal workings of Azure so that we can design our applications on Azure effectively with high availability, data residency, resilience, etc. Microsoft Azure is completely based on the concept of virtualization. So, similar to other virtualized data center, it also contains *racks*. Each rack has a separate power unit and network switch, and also each rack is integrated with a software called *Fabric-Controller*. This *Fabric-controller* is a distributed application, which is responsible for managing and monitoring servers within the rack. In case of any server failure, the Fabric-controller recognizes it and recovers it. And Each of these Fabric-Controller is, in turn, connected to a piece of software called *Orchestrator*. This *Orchestrator* includes web-services, Rest API to create, update, and delete resources

Outcome:

Students got the practical knowledge of cloud computing and how it works.

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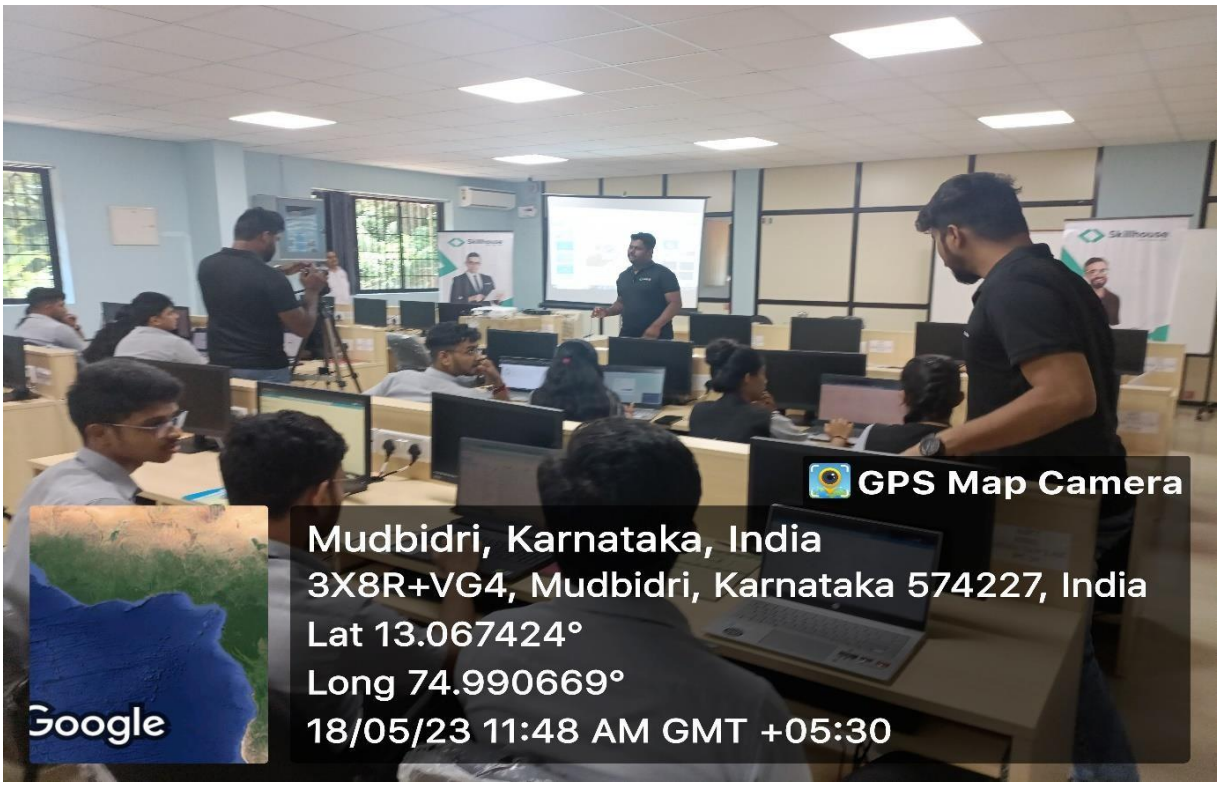

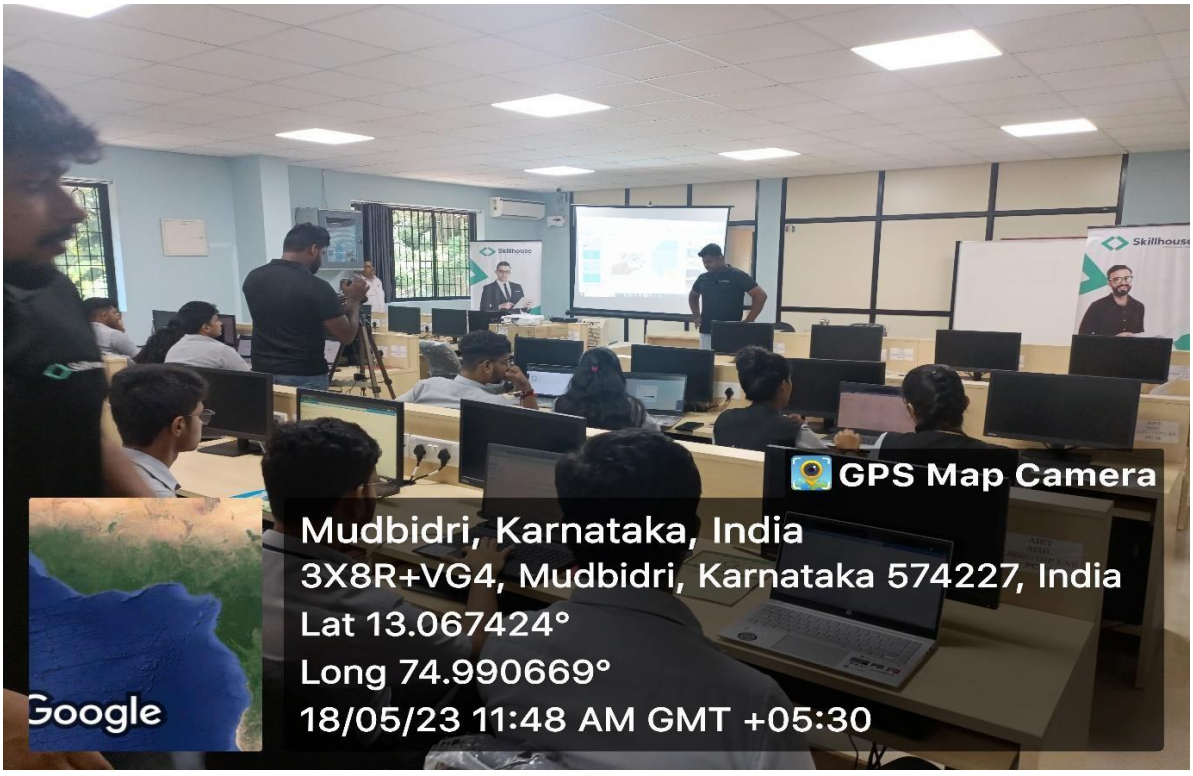

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Department of Artificial Intelligence and Machine Learning

Attendance sheet of Workshop "Microsoft Azure"

USN	Name of Student	Date	Signature
4AL20AI001	ABDULLAH	18-5-2023	
4AL20AI002	AMAN KHADIRSAB KONNUR	18-5-2023	
4AL20AI003	ANKIT MANOHAR CHAVAN	18-5-2023	
4AL20AI004	ANUSH L POOJARY	18-5-2023	
4AL20AI005	ARAV HANSHIK	18-5-2023	
4AL20AI006	ASHISH P B	18-5-2023	
4AL20AI007	AWEZ AHAMED	18-5-2023	
4AL20AI008	B R SUHAAG	18-5-2023	
4AL20AI009	BHOOMIKA	18-5-2023	
4AL20AI010	CHIRAG G	18-5-2023	
4AL20AI011	DAKSH UPPOOR	18-5-2023	
4AL20AI012	DEEKSHITH R	18-5-2023	
4AL20AI013	DELTAN GLERAN LOBO	18-5-2023	
4AL20AI014	DIVITH R RAO	18-5-2023	
4AL20AI015	GOUTHAM JAGADEESH SAMNEKAR	18-5-2023	
4AL20AI016	H BHAVANA	18-5-2023	
4AL20AI017	HARSHA K	18-5-2023	
4AL20AI018	JESWIN	18-5-2023	
4AL20AI019	KARAN KUMAR	18-5-2023	
4AL20AI020	KEERTHANA K	18-5-2023	
4AL20AI021	KEERTHANRAJ M D SHETTY	18-5-2023	
4AL20AI022	M ASHOK KUMAR	18-5-2023	
4AL20AI023	MALINI K A	18-5-2023	
4AL20AI025	MOHAMMED AMAN	18-5-2023	
4AL20AI026	NIKHIL G B	18-5-2023	
4AL20AI027	NITIN HEMA RAJ	18-5-2023	
4AL20AI028	PRAJWAL P PAVSEKAR	18-5-2023	
4AL20AI029	PRANJAL NAIDU	18-5-2023	
4AL20AI030	PRASANNA NARAYANA P	18-5-2023	
4AL20AI031	PRATHAM P	18-5-2023	
4AL20AI032	PRATHIK N R	18-5-2023	

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4AL20AI033	PRATHIK PADMANABHA SHETTY	18-5-2023
4AL20AI034	PREETHAM	18-5-2023
4AL20AI035	PUTTARAJ C TEMBADAMANI	18-5-2023
4AL20AI036	SASHREETH K S	18-5-2023
4AL20AI037	SATHYAM A V	18-5-2023
4AL20AI038	SATYAM PAWALE	18-5-2023
4AL20AI039	SHAILESH RAO	18-5-2023
4AL20AI040	SHIVADEEP U S	18-5-2023
4AL20AI041	SHREYAS	18-5-2023
4AL20AI042	SHRIPRASAD	18-5-2023
4AL20AI043	SIDDHANTH C SHETTY	18-5-2023
4AL20AI045	SOUPARNIKA U S	18-5-2023
4AL20AI046	TARUN D R	18-5-2023
4AL20AI047	THEJAS	18-5-2023
4AL20AI048	ULLAS H U	18-5-2023
4AL20AI049	VISHMA D	18-5-2023

Coordinator

HOD

Student Development Programme on Machine Learning

DAY 1:

A 3 days student development programme on Machine Learning was conducted by Linear Edge Technologies, a software development company from Mysuru from 29-05-23 to 31-05-23. The event was organized by Ms Soundarya B C, Assistant Professor, Dept.of AIML with support from Prof. Harish Kunder, HOD, AIML and was attended by the students of Artificial Intelligence and Machine Learning (AIML) from the Alva's Institute of Engineering and Technology.

The workshop aimed to provide the students with practical knowledge and hands-on experience in using machine learning techniques for software defect prediction. The workshop commenced with an introduction to the importance of defect prediction in software development and how machine learning can be utilized to improve software quality. The guest speakers from Linear Edge Technologies, who were experts in the field, introduced themselves and shared their experiences in working with their projects. Throughout the day, various topics were covered, including data pre-processing techniques, feature selection, and model building. The students were provided with datasets to work on, allowing them to gain practical insights into the challenges involved in software defect prediction. The Linear Edge Technologies experts guided the students in understanding the intricacies of feature engineering and selecting appropriate machine learning algorithms for defect prediction tasks.

DAY 2:

On the second day of the workshop, the focus shifted towards advanced machine learning algorithms and techniques for software defect prediction. The students were introduced to ensemble learning methods, such as Teachable Machines, which are commonly used in building models without coding knowledge. The Linear Edge Technologies experts shared their knowledge on the strengths and limitations of these algorithms and provided practical examples for better understanding. In addition, the workshop included sessions on model evaluation and performance metrics specific to defect prediction. The students were taught how to assess the effectiveness of their models and interpret the results. Emphasis was given to the importance of choosing appropriate evaluation measures to ensure accurate assessment of the model's performance in identifying software defects. The day concluded with a hands-on session where the students were given the opportunity to implement the knowledge gained during the workshop. They worked on a challenging defect prediction problem using real-world software data and applied the machine learning techniques learned throughout the workshop. The Linear Edge Technologies experts provided personalized guidance and feedback to each student, helping them understanding and implementing machine learning algorithms in practice.

DAY 3:

The final day of the workshop began with a recap of the previous two days' learnings. The students had the opportunity to clarify any doubts or questions they had before moving on to more advanced topics. The Linear Edge Technologies experts addressed the queries raised by the students and provided additional insights to enhance their understanding. To acknowledge the efforts of Linear Edge Technologies in conducting the workshop, Mr. Shrikanth N G, the forum co-ordinator of the AIML department, presented the representatives from Linear Edge Technologies with a token of appreciation.

Ms. Soundarya B C expressed gratitude for their valuable contribution in imparting practical knowledge to the students and inspiring them to pursue excellence in the field of software defect prediction. The concluding session of the workshop involved a group discussion where the students shared their experiences and learnings from the three-day event. They expressed their appreciation for the hands-on approach of the workshop and the expertise of the Linear Edge Technologies experts. The students also highlighted the practical challenges they encountered during the implementation of machine learning models and how the guidance received helped them overcome those challenges. In conclusion, the workshop on Software Defect Prediction using Machine Learning conducted

by Linear Edge Technologies proved to be a valuable learning experience for the AIML students. The workshop provided them with a comprehensive understanding of the application of machine learning techniques in software defect prediction. The students gained practical knowledge through hands-on exercises and benefited from the expertise and guidance of the Linear Edge Technologies experts. The event was successful in achieving its objectives and inspiring the students to further explore the field of software defect prediction using machine learning.