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AJIET

Date:08-06-2024

"Workshop on "Image Classification"

Name of the Program:	Workshop on "Image Classification"	Program Dates & Timings:		08.06.2024 9.00AM- 1.00PM	
Name & Details of the Resource Person:	**Chaitra, V Dhanya, Preethi** 3rd Year, Information Science and Engineering, AJIET, Mangaluru				
Organized by (Clubs/ Dept.)	Department of Information Science and Engineering	In Association with (clubs)		Hieka	
Number of Participants	17	Students	17	Faculty	11
Program Outcome (PO) Mapping	PO1, PO2, PO3, PO4, PO7, PO11				
Coordinators	Mrs.Arpitha G				
Faculty Participated	Mr. Prabhakara B. K., Mr. John Prakash Veigas, Mr. Rakesh M R, Mrs. Sharanya P S, Mrs. Navya S Rai, Mrs. Divya Mrs. R. Sahaya Shamini, Mrs. Archana Priyadarshini Rao				

About the Talk

The session on introducing participants to machine learning and about Image classification provided a comprehensive overview of ML as a leading field for developing intelligent systems. Attendees were excited to know about the fascinating world of image classification, a crucial aspect of modern artificial intelligence. This technology is transforming various industries, from healthcare, where it helps in diagnosing diseases from medical images, to retail. In our increasingly digital world, image classification systems are becoming more accurate and efficient, thanks to advancements in deep learning and neural networks. Throughout the session, participants were equipped with a deep understanding of how actually the process of classification works, which underpins its robust performance and versatility across different applications. By exploring machine learning's algorithm-based approach to data analysis, attendees grasped the flexibility and efficiency offered by this field in creating

predictive and adaptive systems. Students were also exposed to aptitude and questions which gave them an idea of the industry level knowledge required.

Key Topics Covered:

- Introduction to Machine Learning and Image Classification: Its purpose and needs.
- Data Acquisition: Data acquisition refers to the process of collecting, measuring, and sampling data from various sources to analyse, store, and process it for further use.
- Training a model: Training a model in machine learning (ML) involves several key steps to develop an algorithm capable of making predictions or classifications based on input data.
- Deployment: deploying and running machine learning (ML) models on mobile devices such as smartphones and tablets. This enables applications to perform tasks such as image recognition, speech processing, and predictive analytics directly on the device, without needing constant access to cloud-based services.

About the Program:

Agenda:

Sl No.	Topic	Speaker
1	Workshop on "Image Classification"	Chaitra, V Dhanya, Preethi

The Department of Information Science and Engineering in organized a workshop on "Image Classification" on 08/06/2024.

Objectives:

1.Prediction: Machine learning aims to develop models that can accurately predict future outcomes or events based on historical data.

2. Classification: It involves categorizing data into different classes or groups based on their features or characteristics.

3. Clustering: Machine learning helps in identifying patterns and grouping similar data points together without any predefined labels.

4. Anomaly detection: It focuses on identifying unusual or abnormal observations in a dataset that may indicate fraudulent activities, errors, or outliers.

5. Pattern recognition: Machine learning algorithms can learn patterns and relationships in data, allowing them to recognize and interpret complex patterns or structures.

6. Optimization: It involves finding the best possible solution or configuration for a given problem by optimizing specific parameters or objectives.

8. Automation: By automating tasks and decision-making processes, it helps proving efficiency, reducing human effort, and minimizing errors.

Outcomes:

- Participants gained a comprehensive understanding of Image Classification.
- Increased awareness about the advantages of using different architectures for classification.
- Attendees acquired practical skills in edge impulse.
- Stimulated interest among participants to explore further into the realm of Image classification solving real world problems.

Articulation Matrix:

Course Outcomes	Program Outcomes											
	1	2	3	4	5	6	7	8	9	10	11	12
1	1	2	2		3						1	
2	2	3	1		2							
3	1		3	2								
Average												

Glimpses of Event:

Mangaluru, Karnataka, India
575006, Bangrakuloor, Kodikal, Mangaluru, Karnataka 575013, India
Lat 12.915339°
Long 74.82918°
08/06/24 10:14 AM GMT +05:30

Coordinator   HOD   Principal