



MGR ASSOCIATION FOR GREAT INNOVATIVE CREATORS

Department of Electronics and Communication Engineering

Event Title	Alumni Interaction Series 16 on " A perspective into ML Algorithms"		
Objective of Event	To provide insights into core Machine Learning algorithms and their real-world applications, bridging academic concepts with industry practices.		
Chief Guest /Speaker Details	, ,		
Date	21/04/2025	Time	02.00 PM to 04.00 PM
Venue	Online	No. of Participants	200

REPORT

TITLE

Alumni Interaction Series 16 on " A perspective into ML Algorithms"

CONTENT

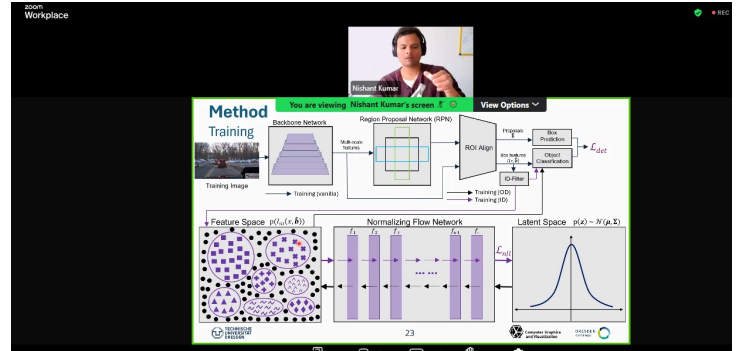
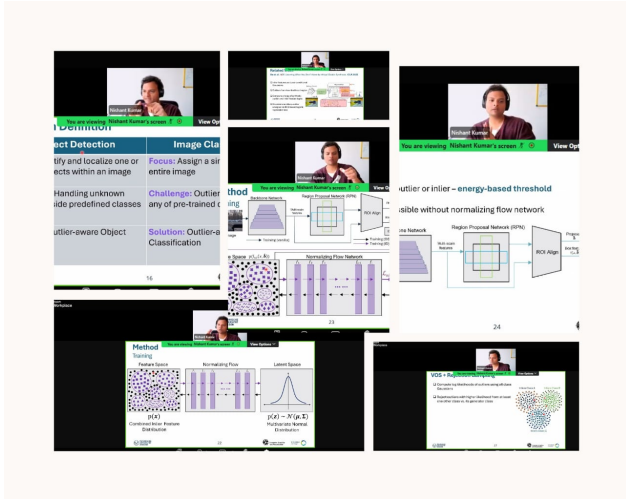
The Department of [Electronics and Communication Engineering], in association with [ECOMET], organized Alumni Interaction Series 16 on "A Perspective into ML Algorithms" on [21st ,April] in online mode. The event aimed to provide students and faculty with insights into Machine Learning algorithms and their real-world applications. The session began with a welcome address and the introduction of the speaker, [Dr. Nishant Kumar]. The expert speaker shared knowledge on key ML algorithms such as decision trees, neural networks, and clustering techniques, explaining their roles in industries like healthcare, finance, and automation. Concepts such as data preprocessing, model training, and evaluation were also discussed. The speaker used real-life case studies and visual aids to simplify complex topics and engage the audience effectively. The session saw active participation, with students and faculty asking thoughtful questions. The event was successfully organized by [Mr. N.Lakshmi narayanan] under the guidance of [Dr. U. Jayalaxumi]Head of the Department, ECE, with thanks extended to [Honourable President, Er. A.C.S Arun Kumar] and the management for their support in promoting knowledge-sharing initiatives.



Dr. M.G.R. EDUCATIONAL AND RESEARCH INSTITUTE (Deemed to be University) Maduravoyal, Chennai - 600 095, Tamilnadu, India. (An ISO 9001-2015 Certified Institution)



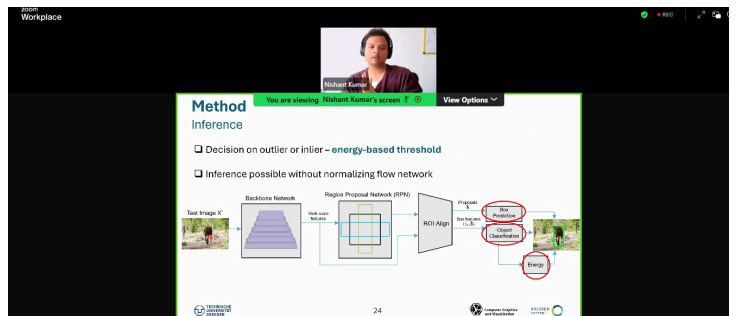
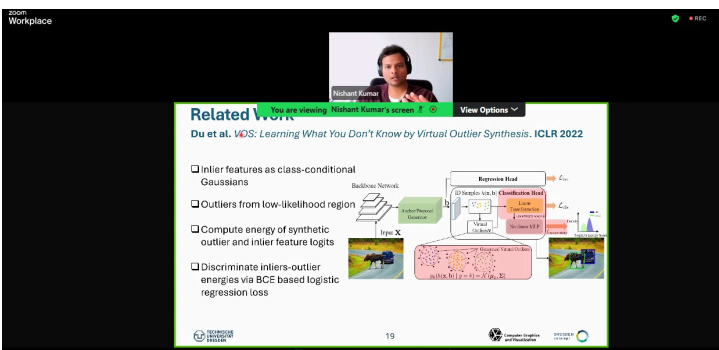
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EVENT OUTCOME

Explore core concepts and real-world applications of Machine Learning algorithms from an alumni expert's perspective in this insightful session.

PHOTOS





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zoom Workplace

You are viewing Nishant Kumar's screen

VOS + Rejection Sampling

- Compute log-likelihoods of outliers using all class Gaussians
- Reject outliers with higher likelihood from at least one other class vs. its generator class

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zoom Workplace

You are viewing Nishant Kumar's screen

Foundations

Normalizing Flows for Density Estimation

- Series of invertible (bijective) mappings $f_i: x \rightarrow z$
 $z = f_{\theta}(x) = f_k \dots f_2(z_1 = f_1(x))$
- Change of variables formula
 $p_{\theta}(x) = p_{\theta}(z) \left| \det \left(\frac{\partial f(x)}{\partial x^T} \right) \right|$
Jacobian determinant

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Mr.N.Lakshmi narayanan