



# Alva's Institute of Engineering & Technology

Shobhavana Campus, Mijar, Moodbidri, D.K – 574225

Phone: 08258-262725, Fax: 08258-262726

(Accredited by NBA New Delhi, 2019 – 2025)

## Department of Artificial Intelligence & Machine Learning

### CIRCULAR dated 3<sup>rd</sup> May, 2023

All the students of 2<sup>nd</sup> and 3<sup>rd</sup> year of Artificial Intelligence and Machine Learning department are informed to attend a One day Technical Talk session (Techtalk – 2023) on 17<sup>th</sup> May 2023, 10:00 am at AI & ML Laboratory. The following resource person will be delivering you the eminent talks on the below mentioned topic.

Resource Person: **Dr. Arnab Mitra**, SRM University, A.P.

Topic: **Fake profile detection in Social Networks.**

Everyone's presence & co-operation in this regard is highly expected.

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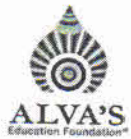
All Class Rooms

Notice Board

  
03/05/2023  
HOD Sign. & Date

(Dept. of AIML)

Head of the Department  
Dept. of Artificial Intelligence & Machine Learning  
Alva's Institute of Engineering and Technology  
Shobhavana Campus, Mijar  
Moodbidri 574 225, D.K. Karnataka, India



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### Report on "TechTalk -2023 : Fake profile detection in Social Networks"

Dated: 18<sup>th</sup> May, 2023.

On 17th May 2023, in AIML Seminar Hall the Online Technical Talk started with a brief introduction of our eminent Speaker Dr. Arnab Mitra, Assistant Professor, SRM University, Andhra Pradesh. He obtained his Ph.D. in 2019 from Jadavpur University, India as well as he had the doctoral research mobility at "Gheorghe Asachi" Technical University of Iasi, Romania.

After the introduction, he started with a small overview of what exactly is Fake profile detection. He figured out to explain us about Fake profile detection methodologies. He gave us a brief insight on various social network based applications like FACEBOOK, TWITTER, LinkedIn and so on. He also discussed and compared the challenges are created by the unauthorized users who are having a fake profile in a social media for conflicting with others real authorized users. Then he started to show us the data comparison with real account holder vs fake account holder and very specific congestion based identification of the fake profile. He discussed deeply some of the important method to identify the fake profiles as well as a research method which he has proposed already to solve the same. The following were the majors applying over to structure the session.

- \* Cellular Automata
- \* Social Network Analysis
- \* Page rank validation
- \* Energy transfer based approach towards Page Rank
- \* Approach to detect fake profile etc.

There's still a valid debate happening with the implementation of Cellular Automata (CA) based application. Although he showed the advantages of CA to the fake profile detection mechanism over the older application that we had and so many things he discussed along with the related topics.

Due to the time constraint, couldn't possible to discuss the concepts in depth. It was really an excellent and fantastic session as per the feedback by the students and faculty members.





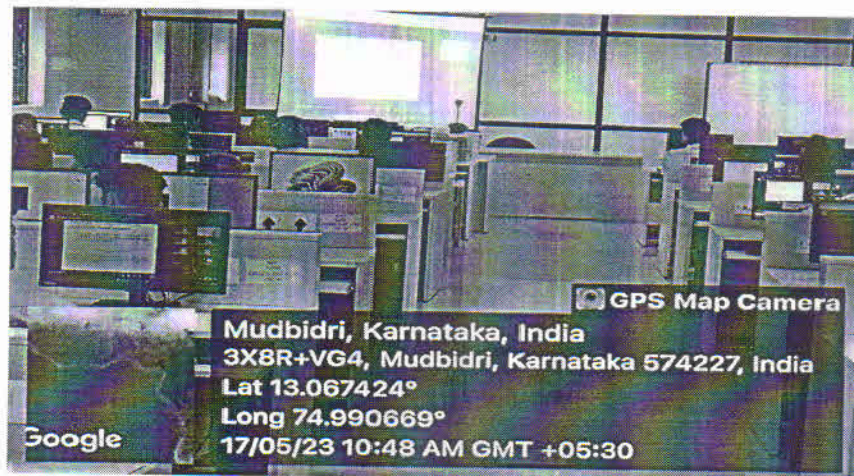
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*KVP* 18/05/2023  
Sign. of HOD

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