

Department of Computer Science and Engineering

One day Technical Seminar on Recognition with Deep Learning – an AI approach

The Department of Computer Science and Engineering of Jansons Institute of Technology organized a One day Technical Seminar on Recognition with Deep Learning – an AI approach on 20th August, 2019. The seminar started with the prayer song followed by the welcome address delivered by Ms. Nayanthara. C of Third Year CSE. The Head of the Department Dr. A. Velayudham honored the Technical Speaker with the memento. As the Speakers profile was unveiled by Harini. E of Third Year CSE, the Speaker Dr. Mohamed Uvaze Ahamed Ayoobkhan, Assistant Professor and Head, Department of Information Technology, Qala University College, Kurdisthan, Iraq and Assistant Professor (Part-time) in Cihan University, Kurdisthan, Iraq started delivering the lecture with the introduction of Deep Learning and how its derived from Artificial Intelligence and Machine Learning.

The speaker showed videos of Boston Dynamics how Machine Learning and Deep Learning were implemented on it and how it evolves in our day to day life. He also stated various real time examples on clustering and classification in the Deep Learning. It ignites our students' knowledge and they raised questions to the speaker who keenly answered all the questions with patience.

Later the students' were taught about the computer vision and its applications such as Landmark Identification, Scene Recognition, Robotics and so on. Two approaches that were used in Convolutional Neural Network (CNN) in the concept of Deep Leaning were also shared by the speaker to the students'. He also gave a very good example about SOPHIA, a social humanoid robot developed by Hong Kong based company Hanson Robotics which was activated on 14th February 2016, and made its first public appearance at South by South West Festival (SXSW) in mid-March 2016 in Austin, Texas, United States. He also displayed a few videos about AI and today's technology which inspired the students' and made the session much interesting.

He also shared his own research experience titled "Automated Detection of Exudates in colored Retinal Images for diagnosis of diabetic Retinopathy". This paper presents a method for detection and classification of exudates in colored retinal images, a real time mobile phone-based gaze tracking and eye-blink detection system on Android platform. The eye-blink detection scheme is developed based on the time difference between two open eye states. The students interacted with the speaker by raising questions such as what type of classification algorithm he used, how to load the image dataset values into the system etc., and it were clarified by him.

The seminar was a very good experience for the students and they also gave positive feedback about the seminar. The session was concluded with a vote of thanks by Nayanthara.C. of Third year CSE and the seminar came to an end with a grand success.