

A Guest Lecture on ‘Challenges in Natural Language Processing (NLP)’

The Department of CSE, MVJ College of Engineering, organized a Guest Lecture on ‘Challenges in Natural Language Processing (NLP)’, on 19th October 2019. The Lecture was delivered by Dr. Anand Kumar M (Assistant Professor, Department of IT, NITK - Surathkal). The purpose of this Lecture was to give students an overview of Natural Language processing and its challenges. The event Coordinators were Prof. Santhiya M (HOD - CSE Department) and Dr. K Sindhanaiselvan (Associate Professor - CSE Department).

The event began at 9.30 am at Dr. M V Jayaraman Auditorium, MVJCE. 150 participants from the Department of Computer Science and Engineering attended the Lecture. The welcome address was given by Ms. Manvi (Student - CSE). She introduced Dr. Anand Kumar M to the audience. Dr. K Sindhanaiselvan welcomed him with a bouquet. The session was then taken over by Dr. Anand Kumar M.



Participants at the Guest Lecture on ‘Challenges in Natural Language Processing (NLP)’ on 19th October 2019 conducted by Department of Computer Science & Engineering

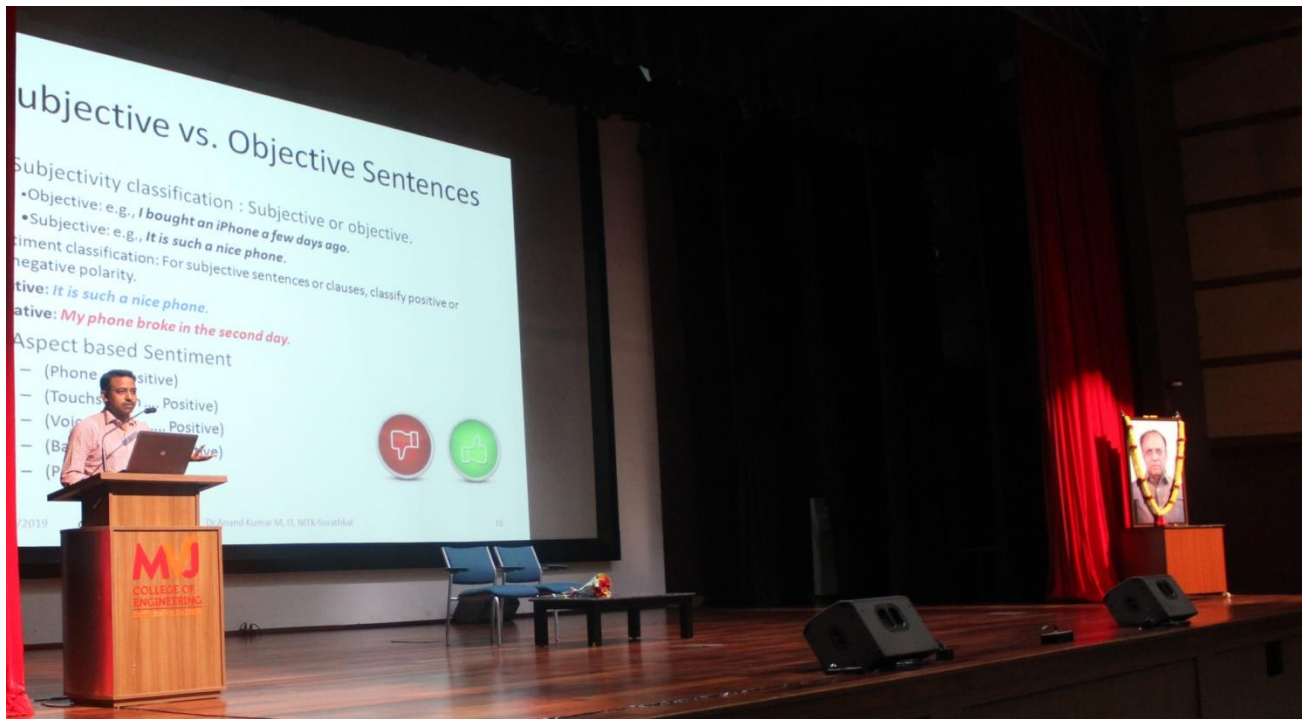


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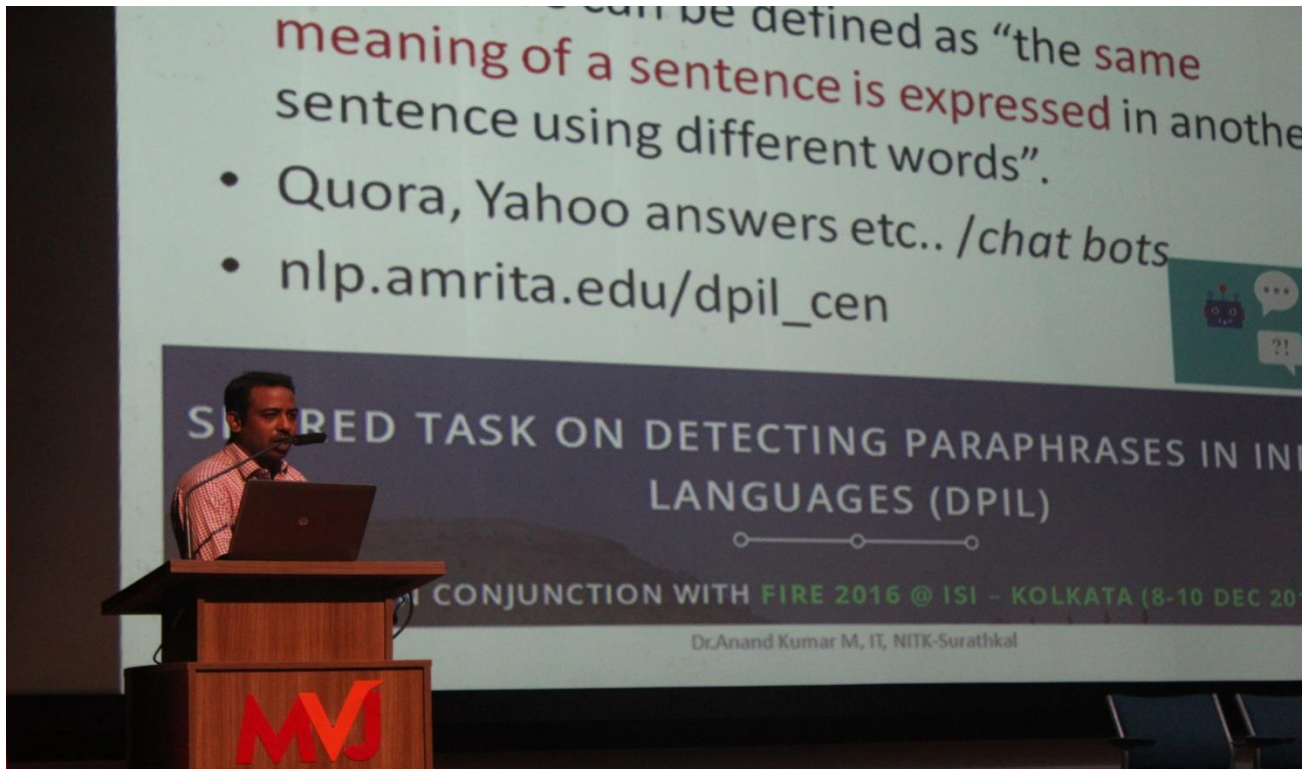
The session commenced with a brief introduction to Natural Language Processing (NLP), the study of computing systems that can process, understand, or communicate in human language. Dr. Anand Kumar M explained fundamental approaches, largely machine learning and deep learning used across the field of NLP. He also spoke about a comprehensive set of NLP tasks, both historical as well as contemporary. He elaborated on the various techniques used in NLP - like Bayes nets, conditional random fields, structured max-margin, tree-structured models, recurrent and convolutional neural networks and attention mechanisms. He further touched upon the various problems, ranging from syntax (parts-of-speech tagging, parsing) to semantics (lexical semantics, question answering, grounding). He explained the various applications, such as summarization, machine translation, information extraction and dialogue systems.

The Speaker then spoke about Chat Bot software. He explained how students can create their own Chat Bot application, and the situations where we use this application in real life. He informed the students about the career opportunities in NLP. He stressed on the importance of NLP, especially in India. Dr. Anand Kumar M spoke about the sentimental analysis in social media content and gave ideas for further research and development in this area.

He motivated students to explore jobs with NLP. The session culminated with a Q/A session, where the students cleared their doubts related to Natural Language Processing and Speech Recognition.



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The Vote of thanks was presented by Ms. Manvi (Student - CSE).

Outcome of the Guest Lecture

1. Brought out the advanced concepts of NLP techniques
2. Showed how NLP influences our real life
3. Imparted knowledge about Artificial Intelligence and Machine learning concepts
4. Discussed application and research perspectives of the field
5. Discussed about various latest algorithms used in NLP