



## **REPORT ON INTERNATIONAL COFERENCE ON FOSS APPROCHES TOWARDS COMPUTATIONAL INTELLIGENCE AND LANGUAGE TECHNOLOGY-2023 (FOSS CIL T23)**

### **Day 1: 22<sup>nd</sup> February 2023:**

The International Conference on FOSS Approaches towards Computational Intelligence and Language Technology-2023 was a significant event organized by ICFOSS in association with Kerala Startup Mission (KSUM) and K-DISC with Event partners, FAYA-80. The conference aimed to bring together experts, researchers, practitioners, and students from across the world to discuss and explore the latest advancements in the fields of FOSS (Free and Open Source Software) approaches towards Computational Intelligence and Language Technology. The conference provided platform for students, researchers, engineers and practitioners interested on difference aspects of Language Technologies to share their insights on the same. Total of 86 participants have attended the conference.

The main tracks for conference were:

- Natural Language Processing
- Speech and Audio Processing
- Machine Learning and Deep Learning
- Data Analytics and Big Data
- Information Retrieval and Knowledge Management
- Cloud Computing and IoT
- Human-Computer Interaction Education and Training on FOSS

On the first day, ICFOSS has proudly inaugurated the conference, with a ceremonious opening session graced by eminent guests such as Dr. Santhosh Babu,Retd. IAS (Principal Secretary/MD KSITL, MD KFON, CMD IKM, Government of Kerala), Mr. Paolo Rosso (Full Professor at the Technical University of Valencia in Spain), Mr. Muthumanickavel Swaminathan (Lead Data Scientist at Cognizant, United Kingdom), Dr. T K Manoj Kumar (Director- ICFOSS), Ms. Chitra M S (Secretary & Registrar of ICFOSS) and Dr. Rajeev R R, Programme Head of ICFOSS.



The event was kick-started with a warm welcome address by Ms. Chitra M S, followed by an insightful overview of the program's theme by Dr. T K Manoj Kumar. Dr. Santhosh Babu then delivered an inspiring and thought-provoking inaugural address, which formally inaugurated the session. Dr. Sobha Lalitha Devi, Program committee Chair of FOSS-CIL T23, has delivered a graceful vote of thanks for the Inaugural session. She is the Program Director at AU-KBC Research Centre, MIT Campus of Anna University, Chromepet. At the end of the session, our conference proceedings was released and the first copy has given to Mr. Muthumanickavel Swaminathan by Dr. Santhosh Babu.

The keynote speech was elegantly delivered by Mr. Paolo Rosso, who inspired and captivated the audience with his words. His talk was regarding the topic, On the aggressiveness in Twitter: A computational linguistic approach. He highlighted the impact of hate speech in his talk. Ms. Alaka Krishnan R U, Junior Software Engineer, offered a heartfelt vote of thanks to all those who played a part in making the event a memorable one. The technical session led by Mr. Muthumanickavel Swaminathan was informative and engaging. His speech was in the topic, Computational Intelligence in the Era of Edge AI. He is a person who has vast experience in computer vision and thus the case studies he has explained was very interesting and informative to the audience.

In the afternoon session, there was paper & poster presentations and it was executed flawlessly. The paper presentations has started at 2 pm in Malabar Hall, where six papers were presented. Each paper was evaluated by Dr. Vinod Chandra S.S, Professor, Department of Computer Science, Kerala University and Dr. Anoop V.S, Research Officer, DUK, Thiruvananthapuram. After the paper presentation, there was poster presentaion. Five groups has presented their ideas and the evaluation has done by Dr. Anoop V.S, Research Officer, DUK, Thiruvananthapuram and Dr. Deepa Gopinath, consultant, K-DISC.

## **DAY -2 : 23<sup>rd</sup> February**

The second day's session has started at 10.00 am. The session was started with the invited talk of Dr. S.P. Syed Ibrahim, Professor, VIT, Chennai. The topic handled by the delegate was Deep Learning Approches to Network Intrusion Detection System. His explanation about deep learning concepts and its application towards network instrusion systems was so nice such that even beginners can understand





the topic. After his session there was Panel Discussion, which was the most attractive part of the conference. The panel discussion was on the subject of "NLP Ecosystems in India" . The moderator of the event was Dr.K Sabarish, Chief Scientist and Head,KSCSTE and the memembrs were Ms. Akansha Bansal (Co-founder at panlingua Language Processing LLP), Muthumanikkavel Swaminathan (Cognizant,United Kingdom), Anoop Ambika (Cheif Executive Officer-Kerala Startup Mission), and Jikku Jose (CEO,Story Brain,Singapore). The session was mainly to boost up the start ups especially in NLP in this challenging industry. Their exceptional leadership skills ensured a lively and thought-provoking exchange of ideas. They have also discussed about the challenges that they have faced during the initial stage of their career.



International Centre for Free and Open Source Software, Swatantra, Ground Floor, South Pavilion, Sports Hub, Kariyavattom, Thiruvananthapuram – 695581

In the afternoon session, five papers have been presented from the Travancore hall and the evaluators were the same as the first day. The last session was the valedictory session which was followed by the paper presentation.

### **Valedictory Function:**

The day culminated with a memorable and inspiring valedictory function benched by Dr. Anoop V S, Research Officer, Digital University of Kerala, Dr. Vinod Chandra, Professor, Dept. of CS, University of Kerala & Dr.Sobha Lalitha Devi ,Member Research Staff & Program Director, AU-KBC Research Centre, MIT Campus of Anna University, Chromepet, which marked the successful conclusion of truly productive and enriching days. During the function, the jury has announced the best paper and best poster award with cash prize. The event was an outstanding success.

