

DEPARTMENT OF CSE

Date: 11-12-2019

Workshop Report

Title of the Workshop: One-Week National Level Workshop on

“Edge Intelligence : Edge Computing in the Artificial Intelligence Era”

Duration of the Workshop: 2nd to 7th December, 2019.

Venue: CSE Dept., GNITS.

Total number of participants attended the workshop: 43

Chief Guests for the Workshop:

1. Dr. K. Sirisha, Founder & CEO, Empiezo IT Solutions Pvt. Ltd.
2. Mr. P. Mohan, Senior Data Scientist, Independent Consultant for Data Science, Tech Mahindra.

Speakers for the Workshop:

1. Mr. Ravi Katukam, Director IP & Digital Innovation, Techolution.
2. Dr. Vineeth N Subramanian, Associate Professor and Head, Department of AI, IIT - HYD.
3. Mrs. Swathi Annamameni, AI Developer, SmartBridge Educational Services Pvt. Ltd., HYD.
4. Mr. Surya Tej, Python Developer, SmartBridge Educational Services Pvt. Ltd., HYD.

With a pleasant and motivational speech of **Honorable Chief Guest Dr. K. Sirisha**, the Inaugural Function has started. She has focused on current trending technologies and their role in the market, which impressed the participants by providing valuable information. An eminent speaker and Industry Person **Mr. Ravi Katukam** has given many new upcoming innovative thoughts to the participants and focused on latest project ideas, their implementations and methodology applicable to it. This inspired participants to focus and enhance their ideas and placed in to reality.

The hands-on sessions carried out by **Mrs. Swathi and Mr. Surya Tej** on Artificial Intelligence and Machine Learning has given participants a very good-learning experience with in a short period of time. Participants were given a practical exposure on how to build a neural network model using Artificial Neural Networks and evaluating the accuracy of the model using ANN, Model deployment on Jetson Nano, Building a Web Application using Flask Framework.

With this practical experience, all the participants actively participated in **Hackathon**, where the participants been formed in to teams and thereby assigning usecases to different teams. The following are the different use cases worked out by participants.

- Detection of Motor Cyclists without helmet using CNN
- Crop Protection using CNN
- Prediction of Mode of delivery in pregnancies using ANN.
- Forest Combustion Recognition using AI.
- A neural network for Wine Quality Estimation.
- Intelligent Video surveillance System.
- Emotion classification from Facial expressions using CNN.
- Digit Recognizer.
- Fruit Recognizer.
- Brain Tumor Detection.
- Face Gesture, Age and Gender Prediction.

All the participants enthusiastically participated in the Hackathon and expressed a heartfelt thankfulness for the conduction of Practical Oriented Workshop where they get a chance of practical experience, make them feel confident to apply and continue their implementation methodology and strategies further towards their research as well. Project assessment was done by the Judges and suggestions were given to the participants to enhance the projects in a better way. To encourage the participants and move them towards research closely, Prizes has been awarded for the best project winners and runners.

Dr. Vineeth N Subramanian, a distinguished speaker has given deep insights in the area of Deep Learning and Machine Learning. Discussing on different methods and models used in implementation has motivated participants towards current research area of work.

80% of the participants graded the workshop as ‘Excellent’. The Participants of the workshop have given a positive feedback. They highlighted the usefulness of the content projected and are very much satisfied with the Hands-On Sessions. They expressed their interest in conduction of many more workshops in future.



Enthusiastic Participation of faculty in Hands-on Sessions



Reviewing the Projects during Hackathon



Prize Distribution to Winners in Hackathon



Group Photo with the participants