

LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING

(AUTONOMOUS)

Accredited by NAAC & NBA (Under Tier - I), ISO 9001:2015 Certified Institution

Approved by AICTE, New Delhi and Affiliated to JNTUK, Kakinada

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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

REPORT

on

ATAL Sponsored Faculty Development Program

on

“Data Science and its Applications”

(06th – 10th December 2021)



Lakireddy Bali Reddy College of Engineering (A) has organized ATAL Sponsored Faculty Development Program on “Data Science and its Applications” from 06th – 10th December 2021. This FDP received an overwhelming response with *133 Participants (In-house Participants i.e., LBRCE – 32 (CSE – 27, Other Departments – 05) and Outside Participants – 101)* from various institutes/colleges approved by AICTE and affiliated to various Universities across the arena of India.

Date: 06/12/2021

Inauguration:

FDP was inaugurated on 06/12/2021 by **Dr. D.V.L.N. Somayajulu, Director, IIITDM, Kurnool** along with **Mr. Nahar Singh, AI Continental Labs AG, Bengaluru, Dr. K. Appa Rao, Principal, Dr. M. Srinivasa Rao, Dean Academics, Dr. D Veeraiah, HOD and Convener of FDP, Dr. O. Rama Devi, Professor and Coordinator of FDP and Co-Coordinator of the FDP Dr. P. Bhagath, Mr. L.V. Krishna Rao, Mr. S. Srinivasa Reddy.**

Mr. L.V. Krishna Rao has welcomed all the dignitaries and delegates. In his welcome speech, he highlighted the importance and objectives of organizing this faculty development programme.

Our Coordinator of the FDP, Dr. O. Rama Devi, started her speech by thanking AICTE and ATAL Academy committee members for accepting our proposal and granting the funds to conduct this FDP. Then she has thanked all the participants who have registered from the 14 states of the country who are not only from Andhra Pradesh/Telangana, but from different states like Maharashtra, Karnataka, Tamilnadu, Assam, Bihar, Rajasthan, Punjab, Delhi, Gujarat, Haryana etc. She then thanked all the Resource Persons **Mr. Nahar Singh, Dr. Santosh Kumar, Mr. Ritesh Ratti,** etc. for accepting our request irrespective of their busy

schedule. In her speech, she added that data is the fuel and key thing of any industry or research organization in this 21st century. Data Science is not limited to any field or application. It's wide range of applications include Healthcare, Web Engines, Recommender Systems, Detection Systems, Targeted Advertising, Speech Recognition, Gaming and more. For the next 5 days, various concepts related to AI, Deep Learning, Data Pre-processing, Classification, Algorithmic bias in Healthcare, Text Analytics, Object Detection, Graph Algorithms and Recommender Systems are going to be discussed.

In his Inaugural Speech, **Dr. D. Veeraiah, HOD & Convener**, thanked AICTE and ATAL Academy for choosing our college and providing the fund to conduct FDP. Then he thanked the Chief Guest Dr. D.V.L.N. Somayajulu for accepting our request and joining in the inaugural session. After that, he gave a brief intro about the Department of CSE and said that Data Science is not only limited to any single application, but it will help us in various fields such as data analysis, visualization, etc. He requested everyone in this FDP to attend all the sessions which will help them in identifying/doing some research in this thrust area.

Dr. M. Srinivasa Rao, Dean Academics, has thanked AICTE and ATAL Academy for giving this opportunity to our college to conduct FDP on Data Science and its Applications. Then he thanked the Chief Guest Dr. D.V.L.N. Somayajulu and Resource Person Mr. Nahar Singh for accepting our request and joining in the inaugural session. In his speech, he added that Data Science might be the new name to us now, but its roots are from long back and that has been turned to a buzz word now-a-day. Data Science is not only a platform for doing research, but it is giving the opportunity to many people in terms of job and career. He said that to get the information from the data, various scientific methodologies are being used. He added that “Data is very important, because data gives the information, information gives the knowledge, and knowledge gives the wisdom”. In the end of his speech, he congratulated Convener, Coordinator, Co-Coordination, and faculty members for organizing “A Right Program in a Right Time with Right Persons”.

In his inaugural speech, worthy **Principal, Dr. K. Appa Rao** thanked the AICTE and ATAL Academy for selecting LBRCE (A) and sanctioning the amount to conduct the Faculty Development Program on “**Data Science and its Applications**”. He said that Data Science is one of the emerging areas and everyone is talking about Artificial Intelligence and Data Science. Then he added if faculty got trained on the various concepts of this area, that can help in training the students on advanced and thrust area which helps in gaining knowledge by them. He requested all the participants to join in all the sessions and learn the advanced concepts related to Data Science. Then use the learned concepts for teaching them to the

students as well as do the research for the benefit of future and growth in the career and publish good research papers in reputed journals.

Chief Guest of the Inauguration, **Dr. D.V.L.N. Somayajulu, Director, IIITDM, Kurnool** started his speech by thanking LBRCE (A) for giving this opportunity to be a Chief Guest. He said that Data Science became a prominent buzz word today in the industry. He said roles of the Industrial Persons are changing in this decade from Software Engineers to the Data Scientist due to Data Science. “A data scientist is a professional responsible for collecting, analyzing and interpreting extremely large amounts of unstructured data”. He added that a person who is having the knowledge of identifying good qualitative answer for supporting business decisions from the raw and unstructured data are having demand in the present scenario. He said that there is a scarcity in the industry for Data Scientists as the industries are moving towards Big Data. In the end, he said, as per the study of McKinsey, there is a shortage of more than 2 Lakh Data Scientists and 1.5 million managers and analysts in the USA itself.

Resource Person **Mr. Nahar Singh, Senior Manager, AI Continental Labs AG, Bengaluru**, in his inaugural speech conveyed thanks to Principal, Convener, Coordinator and Co-coordinators of this FDP for giving this opportunity to act as a Resource Person. In his speech, he highlighted that this 5-Day FDP is a package of various concepts related to the Data Science. He said that this FDP will cover what Data Science is, Computer Vision, NLP, Text Analytics, etc. which are the various components of the Data Science. This FDP will help the participants to learn a lot about data and how data can be used with respect to industry as well as academics.

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Department of Computer Science and Engineering

Date: 06/Dec/2021, 09.30 AM

Welcome to Inauguration
of
ATAL Academy Sponsored
Faculty Development Program (FDP)
on
Data Science and its Applications
(06th - 10th December 2021)

Chief Guest Dr. D.V.L.N. Somayajulu Director, IIITDM Kurnool	Guest of Honour Mr. Nahar Singh Sr. Manager, AI Labs, Bengaluru	Principal Dr. K. Appa Rao LBRCE(A), Mylavaram
Dean Academics Dr. M. Srinivasa Rao	Convener & HOD-CSE Dr. D. Veeraiah	Coordinator Dr. O. Rama Devi
Co-Coordinators		
Dr. P. Bhagath Assoc. Professor, Dept. of CSE	Mr. L.V. Krishna Rao Sr. Asst. Professor, Dept. of CSE	Mr. S. Srinivasa Reddy Sr. Asst. Professor, Dept. of CSE

Fig. 1: 06/12/2021 – Inauguration Banner of ATAL Sponsored FDP on Data Science and its Applications



Fig. 2: 06/12/2021 - Inaugural Speech by Coordinator of the FDP Dr. O. Rama Devi



Fig. 3: 06/12/2021 - Inaugural Speech by Convener of the FDP Dr. D. Veeriah



Fig. 4: 06/12/2021 - Inaugural Speech by Principal Dr. K. Appa Rao



Fig. 5: 06/12/2021 - Inaugural Speech by Chief Guest Dr. D.V.L.N. Somayajulu, Director IIITDM, Kurnool



Fig. 6: 06/12/2021 - Inaugural Speech by Guest of Honour and Session Resource Person Mr. Nahar Singh, Senior Manager, AI Continental Labs AG, Bengaluru

Day 1: 06/12/2021 (Sessions: 01 to 03)

Session: 01

Topics: General Introduction to AI, Hands-on Regression and Classification problems

Resource Person: Mr. Nahar Singh, AI Labs Continental AG, Bengaluru

Our Resource Person, **Mr. Nahar Singh**, started his lecture by giving clear insights on what is artificial intelligence, how AI is useful in day-to-day life, difference among AI, Machine Learning and Deep Learning, and various branches on the Artificial Intelligence. Then he discussed about regression, classification problems and started hands-on session.

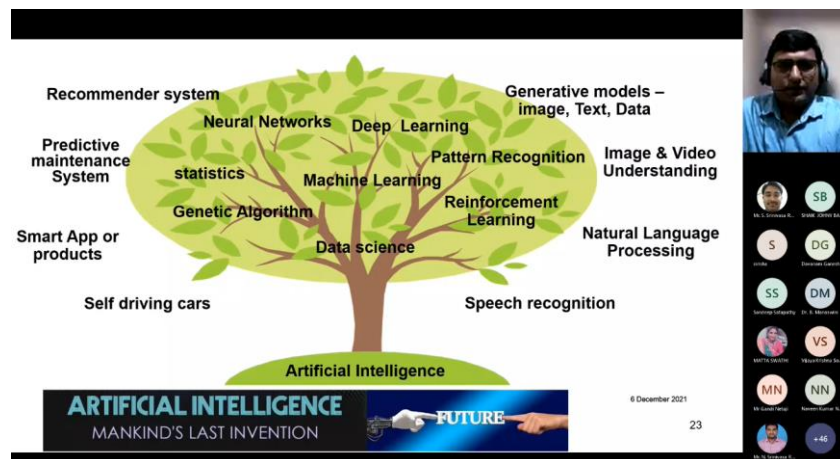


Fig. 7: 06/12/2021 – Session 01 by Mr. Nahar Singh on Introduction to AI

Session: 02

Topics: Machine Learning, Algorithmic bias in health care – I

Resource Person: Dr. Santhosh Kumar, Midlands and Lancashire, NHS, London

Our Resource Person, **Dr. Santhosh Kumar**, started his lecture by giving clear insights on what is machine learning and what are the problems and myths we are facing with machine learning. Then he discussed about various bias in machine learning, deep learning, types of bias such as historical bias, representation bias, measurement bias, evaluation bias and aggregation bias in healthcare.

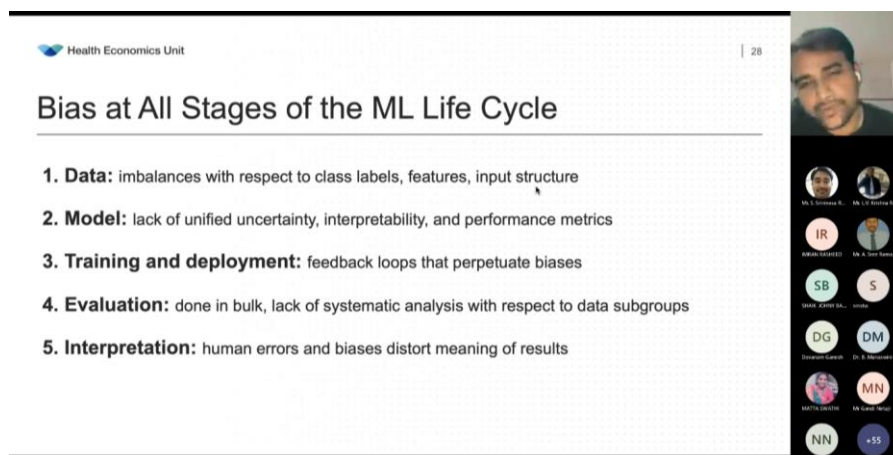


Fig. 8: 06/12/2021 – Session 02 by Dr. Santhosh Kumar on bias in ML & Healthcare

Session: 03

Topics: Introduction to Deep Learning, Hands-on on Image Classification and Transfer learning

Resource Person: Mr. Nahar Singh, AI Labs Continental AG, Bengaluru

Our Resource Person, **Mr. Nahar Singh**, gave an overview on neural network, structure of a single artificial neuron (perceptron), different activation functions, and connected neural networks. Then he discussed about flow of forward and backward propagation, one-hot encoding, softmax activation/classifier in neural network and loss function. After that, he gave hands-on on training and testing the data in a dataset and getting the result of the test using CNN.

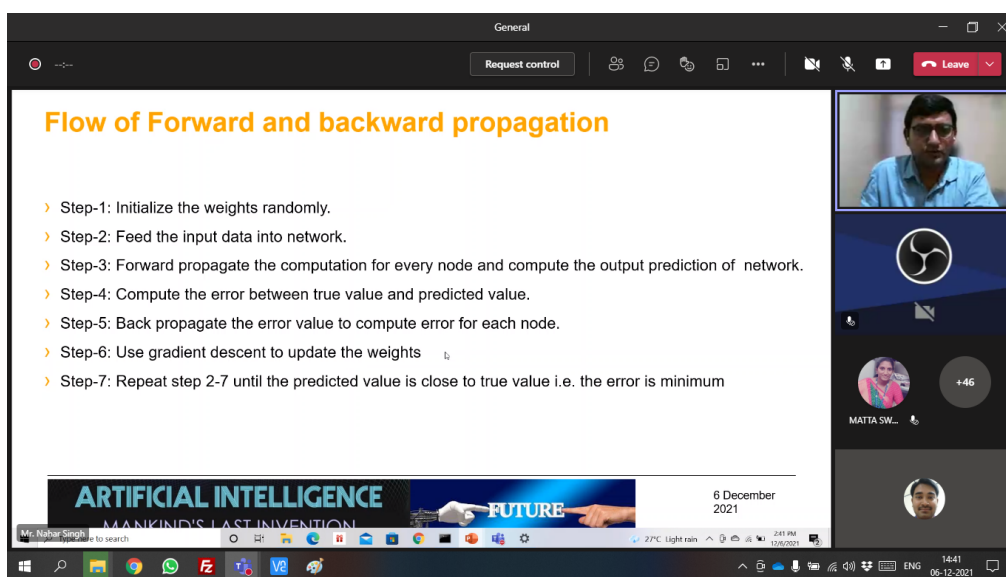


Fig. 9: 06/12/2021 – Session 03 by Mr. Nahar Singh on Neural Networks

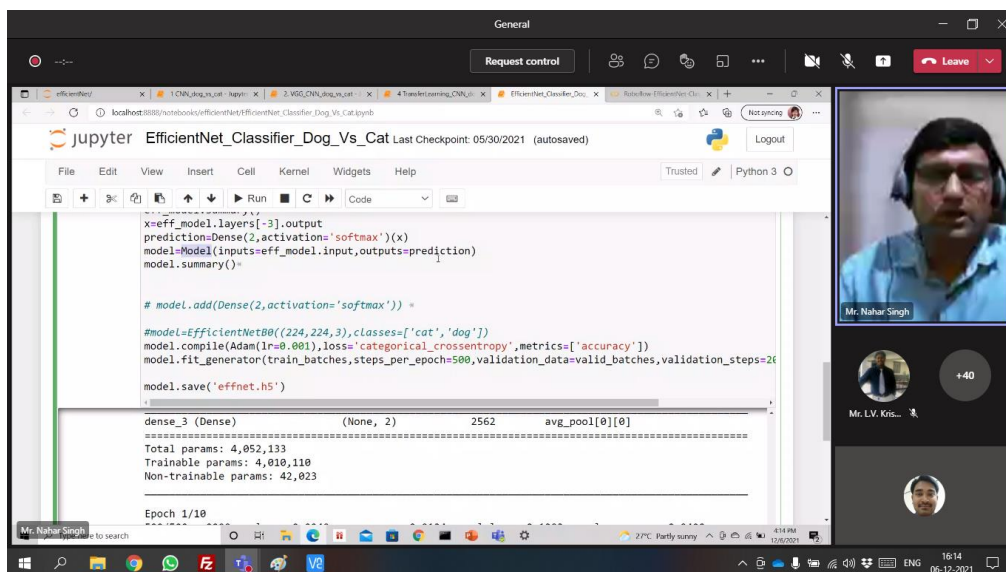


Fig. 10: 06/12/2021 – Session 03 by Mr. Nahar Singh Hands-on on Classification

Day 2: 07/12/2021 (Sessions: 04 to 06)

Session: 04

Topics: General introduction to various text analytics module with Hands-on modules like NER, Text classification use cases

Resource Person: Mr. Ritesh Ratti, Senior Data Scientist, Grab, Singapore

Our Resource Person, **Mr. Ritesh Ratti**, started his lecture by giving clear insights on what is NLP, how the data has been evolving and generating, and the basic components of NLP. Then he discussed about various parts of speech tagging, entity, topic, text and relationship extractions and has shown the POSTagging-Perceptron and AddressParser.

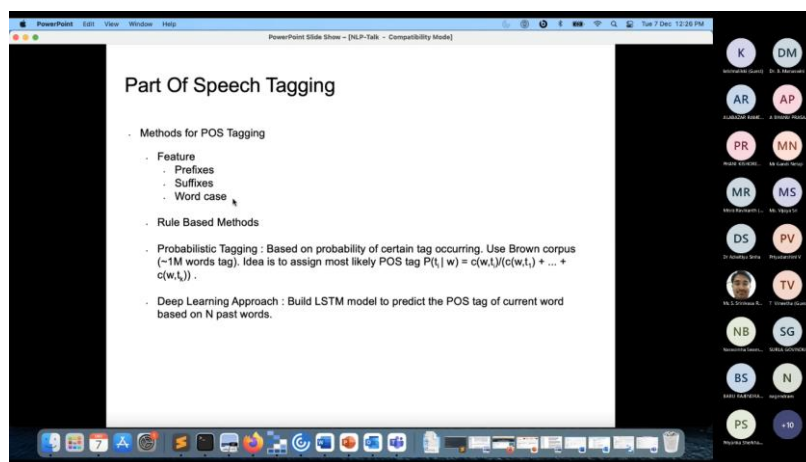


Fig. 11: 07/12/2021 – Session 04 by Mr. Ritesh Ratti on Text Analytics

Session: 05

Topics: Data Pre-processing, Hands-on Exercise

Resource Person: Mr. T. Ram Kumar, Project Manager, Aditi Software, Hyderabad

Our Resource Person, **Mr. T. Ram Kumar**, started his lecture by giving clear insights on what is data, types of data, how data is generating in these days, and how data is cleaned. Then he has shown the live demonstration of reading the data from CSV and performing cleaning.

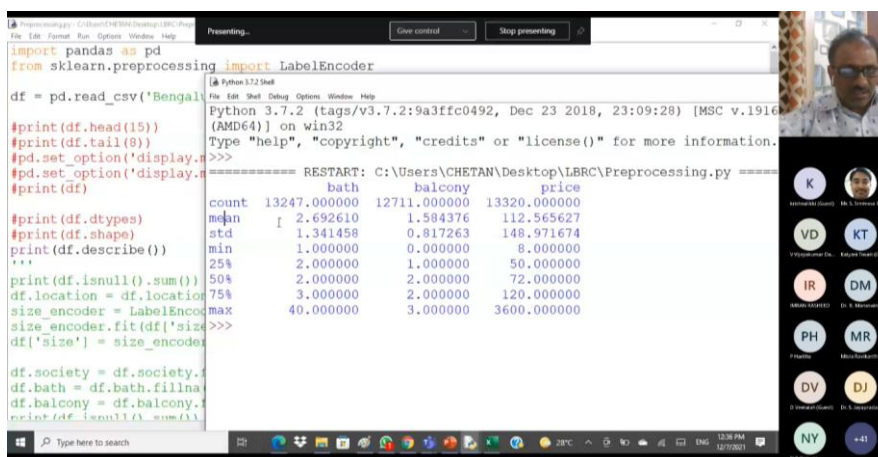


Fig. 12: 07/12/2021 – Session 05 by Mr. T. Ram Kumar on Data Pre-Processing

Session: 06

Topics: Algorithmic bias in health care – II

Resource Person: Dr. Santhosh Kumar, Midlands and Lancashire, NHS, London

Our Resource Person, **Dr. Santhosh Kumar**, started his lecture by giving clear insights on AI in healthcare in present situation. Then he discussed about Machine Learning in Healthcare and how it is improving the accuracy of diagnosis, prognosis and risk prediction of a patient which reduces the medication errors. After that, he discussed about the various ethical principles and core requirements of machine learning in healthcare.

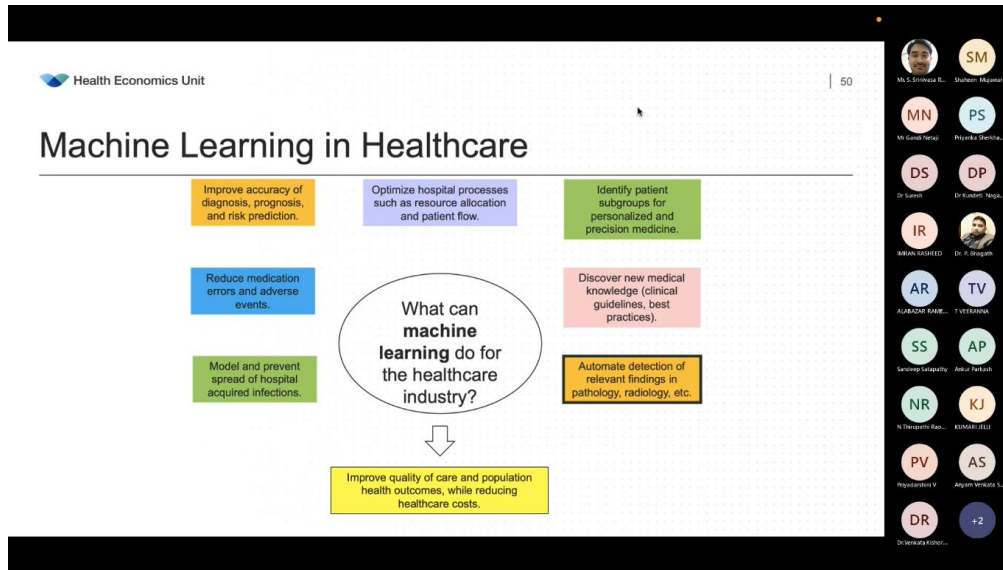


Fig. 13: 07/12/2021 – Session 06 by Dr. Santhosh Kumar on ML in Healthcare

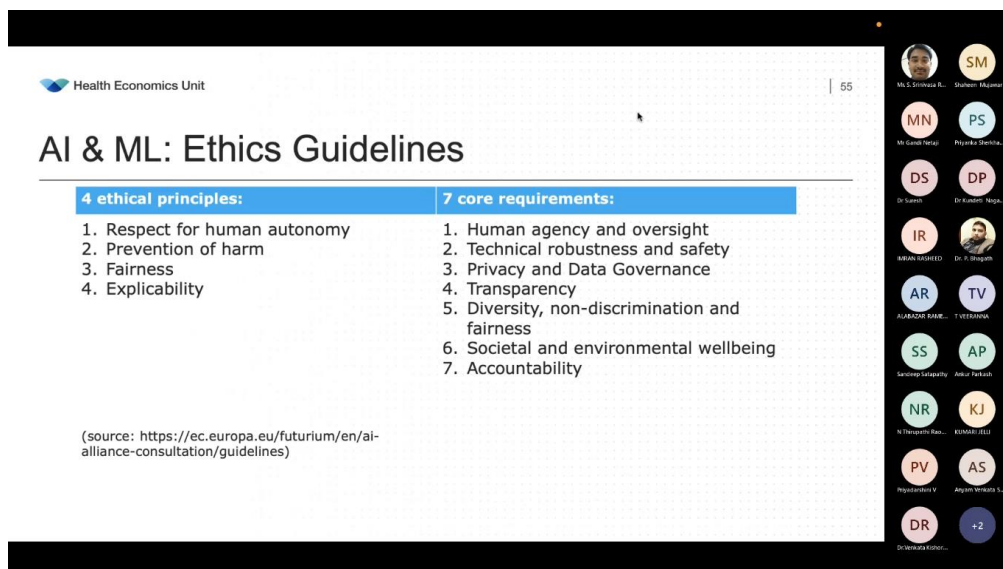


Fig. 14: 07/12/2021 – Session 06 by Dr. Santhosh Kumar on AI & ML Ethics Guidelines in Healthcare

Day 3: 08/12/2021 (Sessions: 07 to 09)

Session: 07

Topics: Object detection, Hands-on on EfficientDet Object detector, Active learning

Resource Person: Mr. Nahar Singh, AI Labs Continental AG, Bengaluru

Our Resource Person, **Mr. Nahar Singh**, started his lecture by giving clear insights on SSD, YOLO, R-CNN, and Fast R-CNN. After that, he discussed about one of the best object detection networks named EfficientDet and has shown the live demonstration of EfficientDet. Then he discussed about limitations of CNN and overcoming them with Transformers in CV.

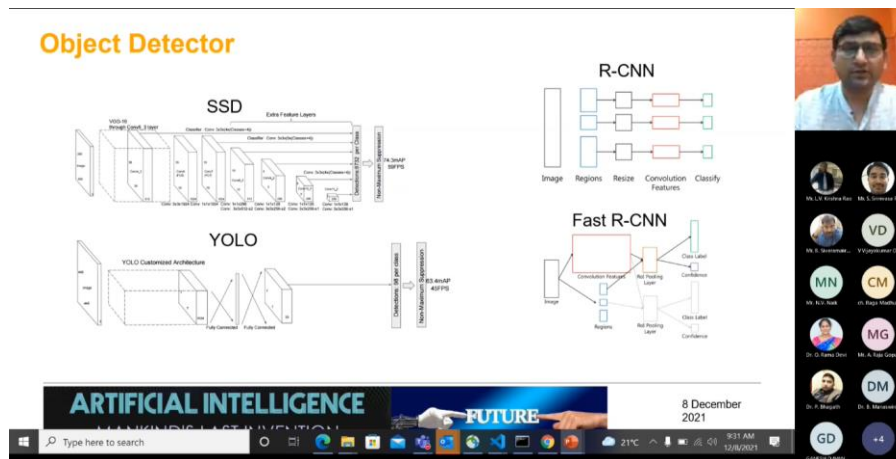


Fig. 15: 08/12/2021 – Session 07 by Mr. Nahar Singh on Object Detection and Transformers

Session: 08

Topics: Regression algorithms, Hands-on Exercises

Resource Person: Mr. T. Ram Kumar, Project Manager, Aditi Software, Hyderabad

Our Resource Person, **Mr. T. Ram Kumar**, started his lecture by giving clear insights on ML, and the differences among AI/ML/DL/NN. Then he discussed about various types of Machine Learning types. After that, he has discussed the Regression Algorithms and shown the live demonstration of Regression Algorithms.

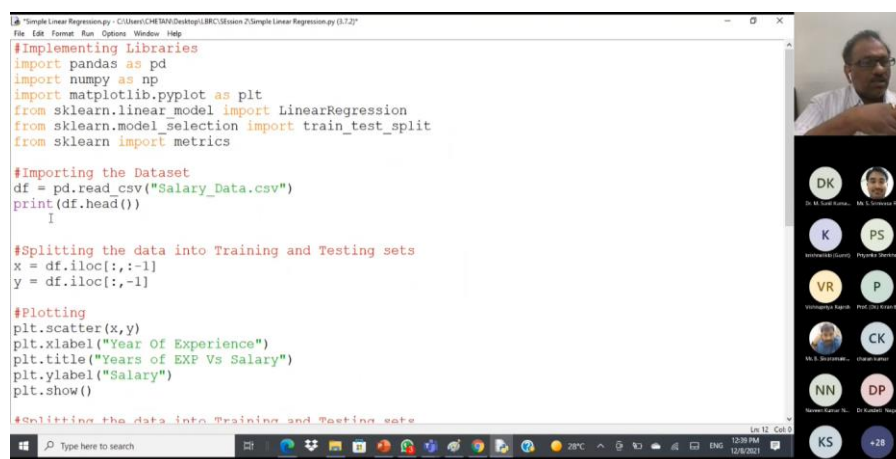


Fig. 16: 08/12/2021 – Session 08 by Mr. T. Ram Kumar on Regression Algorithms

Session: 09

Topics: Algorithmic bias in health care – III

Resource Person: Dr. Santhosh Kumar, Midlands and Lancashire, NHS, London

Our Resource Person, **Dr. Santhosh Kumar**, started his lecture by giving clear insights on Whole Systems Integrated Care (WSIC) Dashboards. Then he gave idea about how to use integrated care data to understand the population and finding the innovative of working togetherness for better support the needs of the population. After that, he discussed about who are developing WISC, specifications of WISC and viewing the patient activity through WISCs.

Who is developing the WSIC Dashboards?
Key enabler to North West London's Sustainability and Transformation Plans (STPs)

Key facts • Over 2 Million People • Over £4bn Annual Health & Care Spend • 8 Local Boroughs
• 8 CCGs & Local Authorities • 360 GP Practices • 10 Acute & Specialist Hospitals
• 2 Mental Health Trusts • 4 Community Health Trusts

CCGs
 Central London Clinical Commissioning Group
 West London Clinical Commissioning Group
 Hammersmith and Fulham Clinical Commissioning Group
 Hounslow Clinical Commissioning Group
 Ealing Clinical Commissioning Group
 Harrow Clinical Commissioning Group

Out Of Area
19 Out Of Area providers are used by our North West London Patients

Acute
 The Hillingdon Hospitals NHS Foundation Trust
 Chelsea and Westminster Hospital NHS Trust
 London North West Healthcare NHS Trust
 Imperial College Healthcare NHS Trust

Social Care (Adult)
 Brent
 Hounslow
 Hillingdon
 City of Westminster
 London Borough of Hounslow
 Ealing

Community
 Central London Community Healthcare NHS Trust
 Hounslow and Richmond Community Healthcare NHS Trust
 Central and North West London NHS Foundation Trust
 London North West Healthcare NHS Trust

Mental Health
 Central and North West London NHS Foundation Trust
 West London NHS Trust

GPs
 City of Westminster
 London Borough of Hounslow
 Ealing

North West London Whole Systems Integrated Care

Fig. 17: 08/12/2021 – Session 09 by Dr. Santhosh Kumar on WSIC Dashboards

WSIC Data population Segments

Description of group	Data Inclusion
1. Children with complex health needs	• Age under 18 • Any of: 1+ defined LTCs ¹ , 1+ defined list of primary care diagnoses, 5+ paediatric OP appts, 2+ OP specialities, 1+ MH IP stay, 7+ community
2. Elderly people with learning disabilities	• Age 65+ • Learning disability flag in QOF, which includes Down's syndrome, some autism, and other disabilities that affect typical learning
3. Adults with learning disabilities	• Age 18 and 64
4. Elderly people with Dementias, Alzheimer's and/or cognitive decline	• Age 65+ • Primary care diagnoses: dementias, Alzheimer's, or other conditions of cognitive decline, e.g. Huntington's & Parkinson's disease
5. Adults with dementias, Alzheimer's and/or cognitive decline	• Age 18 and 64 • Primary care diagnoses as for group 4
6. Elderly people with severe & enduring mental illness	• Age 18+ • Severe and enduring mental health condition, which includes schizophrenia, bipolar disorder, personality disorders
7. Adults with severe and enduring mental illness	• Age 18 and 64 • Severe and enduring mental health conditions as above
8. Children with one or more long-term conditions	• Age under 18 • Have 1+ LTC • Not a member of group 1
9. Adults (18-65) with one or more long-term conditions	• Age between 18 and 64 • Have 1+ LTC
10. Elderly (65+) with one or more LTCs	• Age over 65 • Have 1+ LTC
11. Mostly healthy children	• Age under 18 • Not a member of any other group
12. Mostly healthy adults <65	• Age between 18 and 64 • Not a member of any other group
13. Mostly healthy elderly (65+) people	• Age over 65 • Not a member of any other group

1 Anxiety, Asthma, Cancer, Cerebral Palsy, CHD, CKD, Depression, Diabetes, Epilepsy, Hearing Loss, Intellectual Disability, Learning Disabilities, Mental Health, Obesity, Palliative Care, Spina Bifida & Hydrocephalus
2 LTC flag generated using primary care diagnoses and QOF business rules within the STP

North West London Whole Systems Integrated Care

Fig. 18: 08/12/2021 – Session 10 by Dr. Santhosh Kumar on WSIC Data Population Segments

Day 4: 09/12/2021 (Sessions: 10 to 12)

Session: 10

Topics: Transformer based models Sub word tokenization methods followed by Demo

Resource Person: Mr. Ritesh Ratti, Senior Data Scientist, Grab, Singapore

Our Resource Person, **Mr. Ritesh Ratti**, started his lecture by giving clear insights on how to sequence the sequence modeling, what is a transformer, how self-attention process works, and how attention is different. After that, he discussed about Encoder Internals, various applications and shown the live demonstration of Transformer Library.

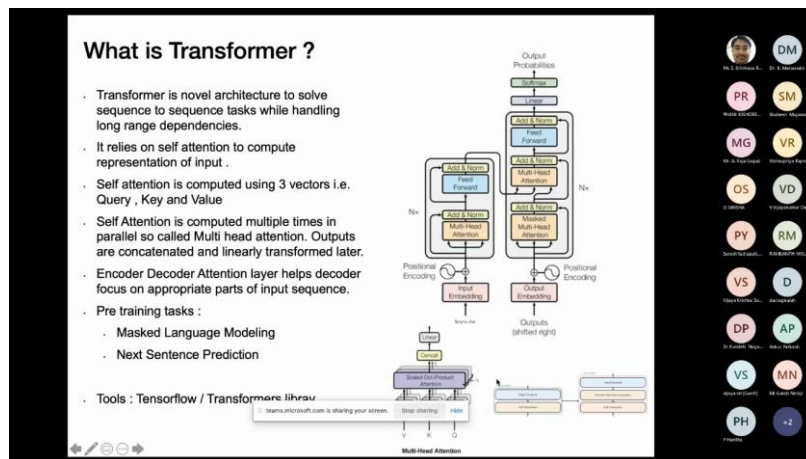


Fig. 19: 09/12/2021 – Session 10 by Mr. Ritesh on Transformers

Session: 11

Topics: Classification algorithms, Hands-on Exercises

Resource Person: Mr. T. Ram Kumar, Project Manager, Aditi Software, Hyderabad

Our Resource Person, **Mr. T. Ram Kumar**, started his lecture by giving clear insights on Multi Linear Regression and Logistic Regression. Then he discussed about Naïve Bayes Classifiers for Classification based on the independence among predictors. After that, he has shown the live demonstration of Classification on Flower Dataset.

```
# Splitting the dataset into the Training set and Test set
from sklearn.model_selection import train_test_split
X_train, X_test, y_train, y_test = train_test_split(X, y, test_size = 0.2, random_state = 0)

# importing the model
from sklearn.linear_model import LinearRegression
lr=LinearRegression()

# fitting the model
lr.fit(X_train, y_train)

# Predict
y_pred=lr.predict(X_test)

print("Training data Score",lr.score(X_train,y_train))
print("Testing data Score",lr.score(X_test,y_test))

***

#model evaluation
from sklearn import metrics
rmse = np.sqrt(metrics.mean_squared_error(y_test, y_pred))
R2 = metrics.r2_score(y_test, y_pred)
print("RMSE Score: ", rmse)
```

Fig. 20: 09/12/2021 – Session 11 by Mr. Ram Kumar on Classification Algorithms

Session: 12

Topics: Introduction to open-source libraries for Graph Neural Network, Hands-on

Resource Person: Dr. Akash Anil, SRM University, Andhra Pradesh

Our Resource Person, **Dr. Akash Anil**, started his lecture by giving clear insights on different network types such as social networks, brain neural connections, communication, bibliographic network, and biological networks. Then he gave idea about application of Network Analytics/Network Science and different challenges in Network Analytics. After that, he discussed about Unsupervised Node Embedding and Deep Learning on Graphs.

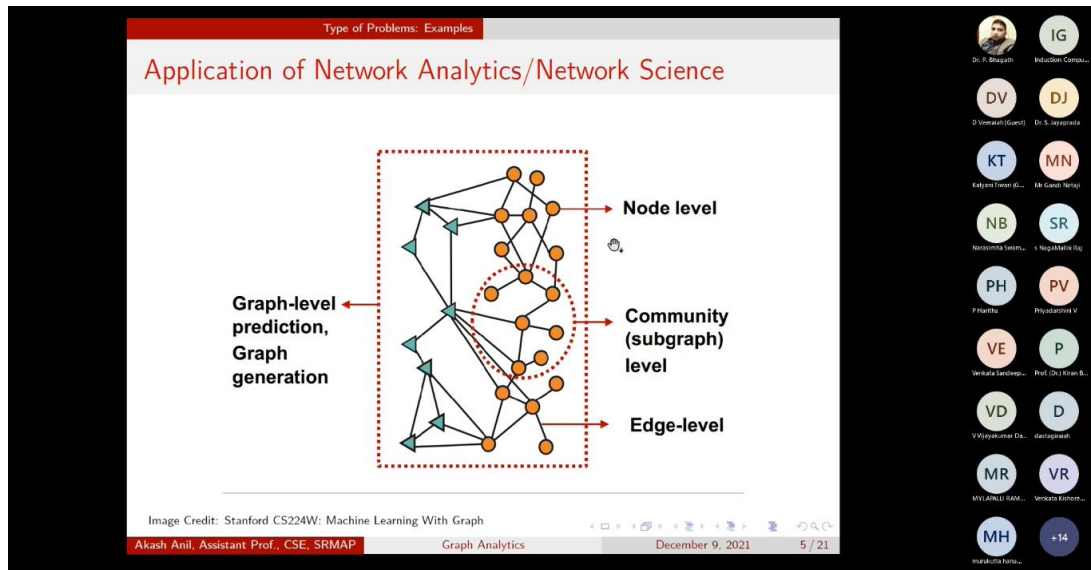


Fig. 21: 09/12/2021 – Session 12 by Dr. Akash Anil on Network Science

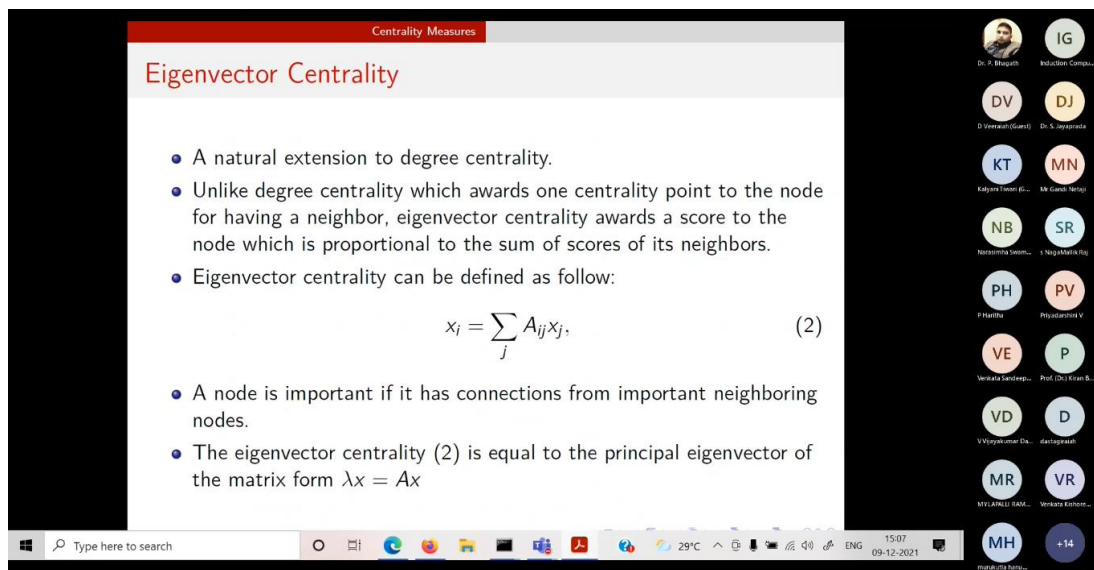


Fig. 22: 09/12/2021 – Session 12 by Dr. Akash Anil on Different Centralities in Network Analytics

Day 5: 10/12/2021 (Sessions: 13 and 14)

Session: 13

Topics: Recommendation systems

Resource Person: Mr. Ritesh Ratti, Senior Data Scientist, Grab, Singapore

Our Resource Person, **Mr. Ritesh Ratti**, started his lecture by giving clear insights on overview of how products will be recommended, what are the challenges in recommendation system, and types of recommendations. Then he discussed about the trending recommendation to customers which use learning-to-rank methods.

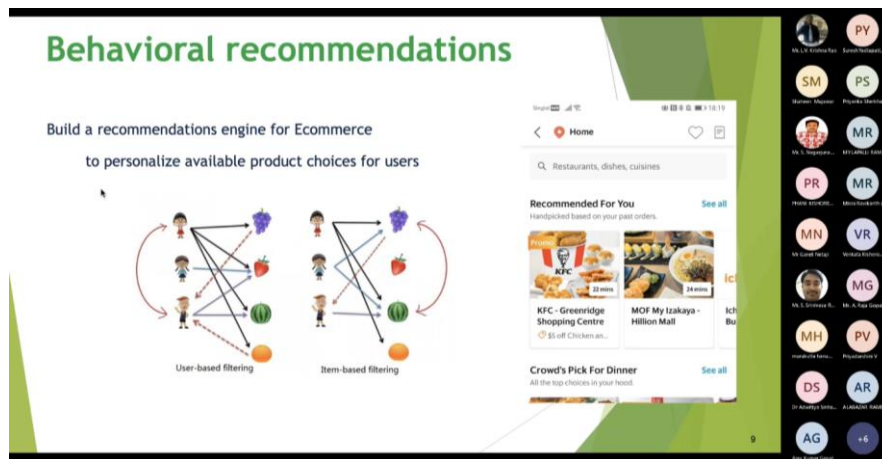


Fig. 23: 10/12/2021 – Session 13 by Mr. Ritesh Ratti on Recommendation Systems

Session: 14

Topics: A Comprehensive Knowledge on Neural Networks for Graph

Resource Person: Dr. Akash Anil, SRM University, Andhra Pradesh

Our Resource Person, **Dr. Akash Anil**, started his lecture by giving clear insights on network representation learning / network embedding. After that, he discussed about various applications of network embedding such as knowledge representation, recommender systems, NLP, and Social Network Analysis. Then he has shown the live demo of Word Embedding.

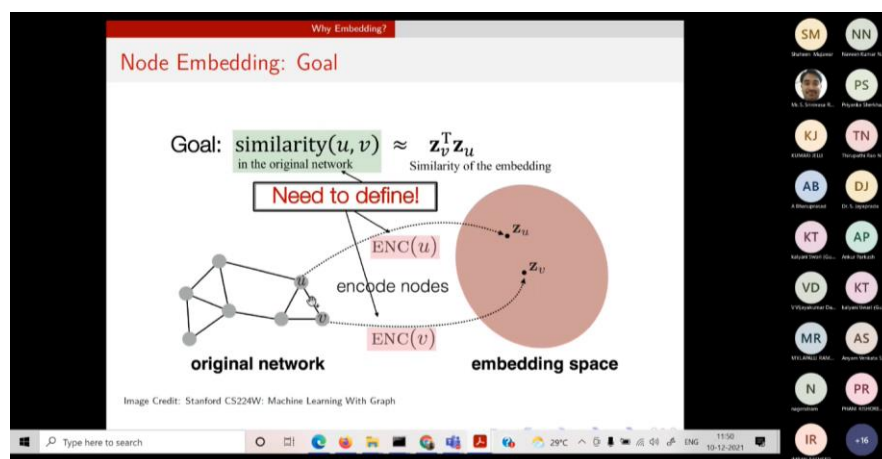


Fig. 24: 10/12/2021 – Session 14 by Dr. Akash Anil on Network Embedding and Applications

Date: 12/11/2021

Valedictory Session:

On the Valedictory Session, our **Principal, Dr. K. Appa Rao and Dean Academics Dr. M. Srinivasa Rao**, joined the session as Chief Guests along with **Dr. D Veeraiah, Professor & HOD, Department of CSE, Dr. O. Rama Devi, Coordinator of FDP, and Co-Coordinators of the FDP Dr. P. Bhagath, Mr. L.V. Krishna Rao, & Mr. S. Srinivasa Reddy.**

Dr. O. Rama Devi, Professor, Department of CSE, Coordinator, in her valedictory speech thanked ATAL Academy for sanctioning the FDP to our Department. Then she thanked all the Resource Persons Mr. Nahar Singh, Dr. Santhosh Kumar, Dr. Akash Anil, Mr. Ritesh Ratti and Mr. T. Anil Kumar for taking the sessions in this program. After that, she thanked all the participants for their active participation. She then thanked the faculty members and staff of the department for their continuous support and cooperation to her for conducting the FDP in a smooth and successful manner.

Dr. D Veeraiah, Professor & HOD, Department of CSE, Convener, in his valedictory speech thanked ATAL Academy for sanctioning the FDP to our Department. Then he thanked the Resource Persons for accepting the request and taking sessions in the FDP. After that, he said that all the participants should share the knowledge gained in this FDP for their research and to students of their institutions and requested them to train the students to do projects on Data Science related concepts.

At the end of the valedictory session, vote of thanks was given by **Mr. S. Srinivasa Reddy, Co-Coordinator of the FDP** in which he has been paid his gratitude towards all the participants who has spared their valuable time for attending this FDP. He also expressed the gratitude to the Resource Persons, Principal, Head of the Department and Management for giving this valuable opportunity.






Fig. 25: 10/12/2021 – Valedictory Banner of ATAL Sponsored FDP on Data Science and its Applications



Fig. 26: 10/12/2021 – Dr. O. Rama Devi, Coordinator of the FDP – Speech in Valedictory Session



Fig. 27: 10/12/2021 – Dr. D. Veeraiah, Convener of the FDP – Speech in Valedictory Session

 Coordinator (Dr. O. Rama Devi)	 Convener (Dr. D. Veeraiah)	 Principal (Dr. K. Appa Rao)
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Published in Media about FDP

About Inauguration:

Link: <https://epaper.sakshi.com/3312942/Krishna-Constituencies/08-12-2021#nuzvid/1/2>

శిక్షణను సద్వినియోగం చేసుకోవాలి

మైలవరం: మైలవరం లకిరెడ్డి బాలిరెడ్డి ఇంజనీరింగ్ కళాశాలలో ఏఐసీటీఈ-అటల్ అకాడమీ సహకారంతో కంప్యూటర్ సైన్స్ విభాగం ఆధ్వర్యంలో నిర్వహిస్తున్న శిక్షణా కార్యక్రమాన్ని సద్వినియోగం చేసుకోవాలని కళాశాల ప్రిన్సిపాల్ డాక్టర్ కే. అప్పారావు తెలిపారు. మైలవరం లకిరెడ్డి బాలిరెడ్డి ఇంజనీరింగ్ కళాశాలలో ఈనెల 6 నుంచి 10వ తేదీ వరకు డేటా సైన్స్ అండ్ ఇట్స్ అప్లికేషన్స్ అనే అంశంపై అధ్యాపకులు, రీసెర్చ్ స్కాలర్స్, ఇంజనీర్ల పాల్గొని శిక్షణ ఇస్తున్నారన్నారు. కన్వీనర్, సీఎస్ఈ విభాగాధిపతి డాక్టర్ వీరయ్య మాట్లాడుతూ ప్రస్తుతం టిజినెస్లోని ముఖ్యమైన నిర్ణయాలు తీసుకోవడానికి డేటా ఎనాలిసిస్ ఎంతో ఉపయోగకరమన్నారు. డీన్ ఎకాడమిక్స్ డాక్టర్ ఎం.శ్రీనివాసరావు మాట్లాడుతూ ప్రస్తుతం రోజుకు 1.145 ట్రిలియన్ మెగాబైట్ల డేటా జనరేట్ అవుతుందని, అంత డేటాను అర్థం చేసుకుని



మైలవరం లకిరెడ్డి బాలిరెడ్డి ఇంజనీరింగ్ కళాశాలలో మాట్లాడుతున్న ప్రిన్సిపాల్ డాక్టర్ అప్పారావు దాని నుంచి విలువైన సమాచారాన్ని రాబట్టడానికి వివిధ డాటాల ఎనాలిసిస్ పద్ధతులు నేర్చుకోవాలన్నారు. డాక్టర్ డివీయల్ యన్ జోమయ్యాజులు ప్రసంగించారు. కోఆర్డినేటర్ డాక్టర్ రమాదేవి ధన్యవాదాలు తెలిపారు. ఈ కార్యక్రమంలో కోఆర్డినేటర్స్ డాక్టర్ పీ. భగత్, లిక్వి వెంకటేశ్వర రావు, ఎస్. శ్రీనివాసరెడ్డి, అధ్యాపకులు, దేశంలోని వివిధ కళాశాలల అధ్యాపకులు పాల్గొన్నారు.

 Wed, 08 December 2021
<https://epaper.sakshi.com/c/64824550>


About Closing of FDP:


Link: <https://epaper.sakshi.com/3316029/Krishna-Constituencies/11-12-2021#nuzvid/1/1>

డేటా ఎనాలిసిస్ పై అవగాహన

మైలవరం: అల్లారిధమ్ టూల్స్ ను డేటా ఎనాలిసిస్ కోసం ఉపయోగించాలని ప్రిన్సిపాల్ డాక్టర్ కే. అప్పారావు తెలిపారు. మైలవరం లకిరెడ్డి బాలిరెడ్డి ఇంజనీరింగ్ కళాశాలలో ఏఐసీటీఈ-అటల్ అకాడమీ సహకారంతో కంప్యూటర్ సైన్స్ విభాగం ఆధ్వర్యంలో డేటా సైన్స్ అండ్ ఇట్స్ అప్లికేషన్స్ పై అధ్యాపకులకు నిర్వహిస్తున్న శిక్షణా కార్యక్రమం శుభ్రవారం ముగిసింది. ఈ సందర్భంగా ప్రిన్సిపాల్ మాట్లాడుతూ శిక్షణా శిబిరంలో నేర్చుకున్న అంశాలను విద్యార్థులకు నేర్పించాలని, వాటితో ప్రాజెక్టులు చేయించాలన్నారు. ఈ కార్యక్రమంలో రిసోర్స్ పర్సన్ డాక్టర్ ఆకాష్ అనిల్, ఆసిస్టెంట్ ప్రొఫెసర్ ఎస్ ఆర్ ఎమ్ యూనివర్సిటీ, డీన్ అకాడమిక్స్ డాక్టర్ శ్రీనివాసరావు, కన్వీనర్ సీఎస్ఈ విభాగాధిపతి డాక్టర్ వీరయ్య, ప్రోగ్రామ్ కోఆర్డినేటర్ డాక్టర్ ఓ.దుగు రమాదేవి ప్రసంగించారు. ఈ కార్యక్రమంలో అధ్యాపకులు, కోఆర్డినేటర్స్ డాక్టర్ పీ. భగత్, ఎల్. వెంకటకృష్ణారావు, శీలం శ్రీనివాసరెడ్డి, అధ్యాపకులు పాల్గొన్నారు.


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