



PRAGATI ENGINEERING COLLEGE

(AUTONOMOUS)

DEPARTMENT OF CSE (DATA SCIENCE)

DATA ANALYTICS CLUB

05-09-2026

A Report on the Data Analytics Club Activity

As part of the technical activities under the **Data Analytics Club** of the Department of CSE (Data Science), this event was conducted.

Name of the Event: Technical Seminar

Name of the Topic: From Data to Intelligence: Exploring ML and DL

Name of the Speaker: K. Sri Bhandhavi(24A31A4413)

Date of the Event: 05-09-2026

Time of the Event: 10:00 AM TO 12:00 PM

Venue of the Event: CF – 8(TECH BLOCK)

A total of 77 students attended this event. All the students have actively participated in the event.

BRIEF WRITE – UP OF THE EVENT:

The Data Analytics Club organized an engaging technical session on “**From Data to Intelligence: Exploring ML and DL.**” The session aimed to provide students with a foundational understanding of how data is transformed into intelligent predictions, decisions, and AI-driven solutions using Machine Learning (ML) and Deep Learning (DL). The session introduced fundamental concepts such as Data, Datasets, Features, Labels, Machine Learning learning types, and Deep Learning architectures.

The session began by explaining how Machine Learning and Deep Learning technologies enable computers to learn patterns from data and solve real-world problems. Students learned how data is collected and organized, how Machine Learning models learn from examples, and how Deep Learning can handle more complex information such as images, speech, and language. Real-world examples and practical demonstrations using Kaggle, Google Colab, Python, and Machine Learning models helped participants understand how raw data can be transformed into predictions, intelligent decisions, and modern AI applications such as Face Unlock, Voice Assistants, AI Chatbots, and Generative AI.

1. Introduction to Machine Learning and Data

- The session introduced Machine Learning and explained how machines learn patterns from data to make predictions and decisions.
- A comparison between Human Learning and Machine Learning helped students understand how humans learn from experience while machines learn from data and examples.
- Students learned the basic concepts of Data, Dataset, Features, and Labels using simple and relatable examples.
- The basic Machine Learning workflow was explained, from collecting data and training a model to making predictions on new data.



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2. Exploring the Types of Machine Learning

- The major learning types—Supervised, Unsupervised, Semi-Supervised, Self-Supervised, and Reinforcement Learning—were explained using human examples and Machine Learning examples.
- Students understood how different types of learning depend on the availability of labelled data, unlabelled data, or feedback such as rewards and penalties.
- A practical demonstration using Kaggle and Google Colab showed how a real dataset can be used in Machine Learning.
- A Student Performance Prediction example demonstrated how features such as study hours and attendance can be used to predict student marks.

3. Exploring Deep Learning and Real-World Intelligence

- The session introduced Deep Learning and explained why it is useful for learning complex patterns from large and unstructured data.
- Important Deep Learning architectures such as ANN, CNN, RNN, LSTM, GRU, and Transformers were introduced with simple examples.
- Students explored real-world applications including Face Unlock, Voice Assistants, AI Chatbots, image recognition, and prediction systems.
- The session also introduced Generative AI and explained how AI can generate new images, music, text, and code by learning patterns from existing data.

HIGHLIGHTS AND KEY TAKEAWAYS:

- Gained a clear understanding of the journey from Data to Machine Learning, Deep Learning, and Intelligent Systems.
- Learned important ML concepts including Data, Dataset, Features, Labels, and the Machine Learning workflow.
- Explored the major types of Machine Learning and how machines learn in different ways.
- Gained practical exposure to Kaggle, Google Colab, Python, and Machine Learning datasets.
- Understood the basic concepts and real-world applications of Deep Learning and neural network architectures.
- Learned how technologies such as Face Unlock, Voice Assistants, AI Chatbots, and Generative AI use Deep Learning.

POST-EVENT FEEDBACK:

Participants found the session informative, interactive, and beginner-friendly. Students appreciated the use of simple human-learning comparisons, real-world examples, and practical demonstrations.

The Kaggle and Google Colab demonstration helped students understand how theoretical Machine Learning concepts can be applied using real datasets. Participants also showed significant



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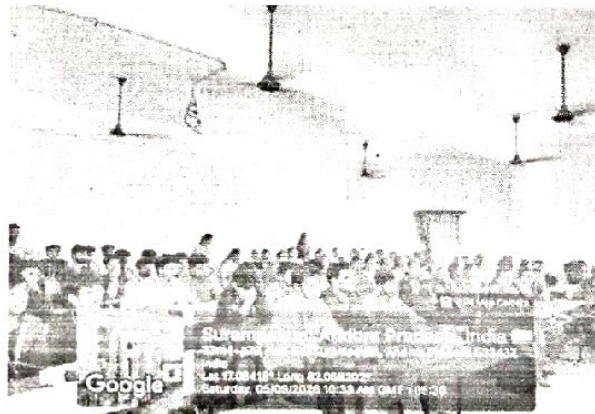
interest in the Deep Learning and Generative AI sections, particularly in understanding how modern technologies such as AI Chatbots and Face Unlock work.

Overall, the session successfully provided students with a clear understanding of how data can be transformed into predictions, intelligent decisions, and AI-powered solutions, reflecting the theme "From Data to Intelligence: Exploring ML and DL."

Questions Raised by Students:

- What is the difference between **Artificial Intelligence, Machine Learning, and Deep Learning**?
- How does a Machine Learning model learn patterns from data?
- What are **Features and Labels**, and how are they used to make predictions?
- What is the difference between **Supervised, Unsupervised, Semi-Supervised, Self-Supervised, and Reinforcement Learning**?
- How can students find and use real-world datasets from **Kaggle**?
- How can **Google Colab and Python** be used to train a Machine Learning model?
- Why is **Deep Learning** needed when **traditional Machine Learning** already exists?
- What is the difference between **ANN, CNN, RNN/LSTM, and Transformers**, and where are they used?
- How do technologies such as **Face Unlock, Voice Assistants, and AI Chatbots** use Deep Learning?
- How does **Generative AI** create new images, text, music, and code from existing data?

PHOTOGRAPHS FROM THE EVENT:





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DATA ANALYTICS CLUB





PRAGATI UNIVERSITY
A FOUNDATIONAL & INTERACTIVE SEMINAR ON

FROM DATA TO INTELLIGENCE

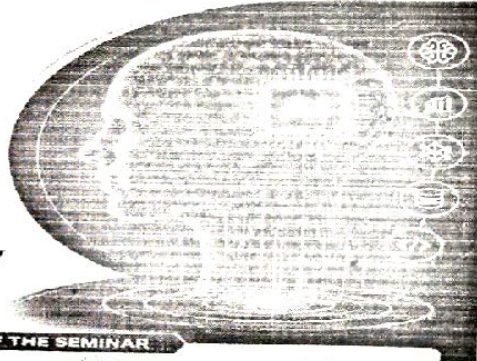
EXPLORING ML & DL

Explore how Machine Learning and Deep Learning transform data into intelligent predictions and real-world solutions.

DATA ANALYTICS CLUB

CSE (DATA SCIENCE)

PRESENTS



HIGHLIGHTS OF THE SEMINAR

- AI, ML & DL BASICS**
Understand the difference between AI, ML and Deep Learning
- HOW MACHINES LEARN FROM DATA**
Explore the basic ML workflow through simple visual examples
- MACHINE LEARNING & DEEP LEARNING IN ACTION**
Learn about popular algorithms, neural networks, and how they work
- REAL-WORLD APPLICATIONS**
See how ML & DL are used in healthcare, social media, recommendation systems, and more
- INTERACTIVE ACTIVITIES & QUIZ**
Test your understanding through fun activities, questions, and challenges
- BUILD & SEE A MINI ML/DL PROJECT**
Examine a fun and easy ML model that can be used to solve a real-world problem
- WHO CAN ATTEND?**
Anyone interested in AI, Machine Learning and Deep Learning

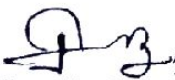
DATE 08/09/2020 (SATURDAY)

TIME 10:00 AM - 12:00 PM

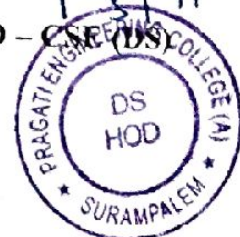
VENUE QF2 (TECH BLOCK)

REGISTER NOW!
<https://www.google.com/forms/d/1FA0GLSvci8STYK0p9UuMR8EDP8A90K>
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“ DATA IS THE NEW OIL, INTELLIGENCE IS THE ENGINE. ”


Faculty Coordinator


HOD - CSE (DS)





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PRAGATI ENGINEERING COLLEGE

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Ph: (08852) - 252233, 252234, 252235 Fax: (08852) - 252232

DEPARTMENT OF CSE (DATA SCIENCE)

DATA ANALYTICS CLUB

Name of the Event: From Data to Intelligence

Title of the Event (Topic): Exploring ML and DL

Speaker (Resource Person) of the event: K. Sri Bhandhavi

Date of the Event: 5/09/26

Time of the Event: 10.00-12:00

Venue of the Event: CF8

List of Students Attended: 24

S.No	Roll Number	Name	Branch	Year	Signature of the student
1	26LECONA112	I. Kodanda Ram	DS - C	II	I. Kodanda Ram
2	25A31A44F9	A. Lakshmi Narayana	DS - C	II nd	A. L. Narayana
3	25A31A44H4	K. Muni Tejo	DS - C	II nd	K. Muni Tejo
4	25A31A44B9	M. Tharan Kumar	DS - B	II nd	M. Thy K. f.
5	26LECONU05	T. L. Divyaga Prasad	DS - B	II nd	T. Divyaga Prasad
6	26LECONU419	E. Prabhu Charan	DS - B	II nd	E. Prabhu Charan
7	25A31A44A0	B. Uma Suya Rao	DS - B	II nd	B. U. S. Rao
8	25A31A44A9	K. Krishna	DS - B	II nd	K. Krishna
9	25A31A44A2	Ch. Subhash Naidu	DS - B	II nd	Ch. Subhash
10	25A31A44C1	N. Lakshmi Narayana	DS - B	II nd	N. L. Narayana
11	25A31A44B5	M. D. Anisithanth	DS - B	II nd	M. D. Anisithanth
12	25A31A44C8	Regulla Ramay	DS - B	II nd	Regulla Ramay
13	25A31A44C4	PALIVELA YASWANTH	DS - B	II nd	P. Yaswanth
14	25A31A44H4	M. Saijan	DS - C	II nd	M. Saijan
15	25A31A44J1	T. Naveen	DS - C	II nd	T. Naveen
16	25A31A44B5	P. Sampath	DS - C	II nd	P. Sampath
17	25A31A44C0	N. Santosh	DS - B	II nd	N. Santosh
18	25A31A44C0	S. Prasanth	DS - B	II nd	S. Prasanth
19	25A31A44C9	S. AKHIL	DS - B	II nd	S. Akhil
20	25A31A44G6	D. Sriharini	DS - C	II nd	D. Sriharini
21	25A31A44H5	K. Manikanta	DS - C	II nd	K. Manikanta
22	25A31A44J7	Y. V. K. Manohar	DS - C	II nd	Y. V. K. Manohar
23	25A31A44S8	R. Sudhika	DS - A	II nd	R. Sudhika
24	25A31A4444	K. D. Balaji	DS - A	II nd	K. D. Balaji

B. Bathish
Name of the Student Coordinator

[Signature]
Signature of the Faculty Coordinator



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Name of the Event: From Data to Intelligence

Title of the Event (Topic): Exploring ML and DL

Speaker (Resource Person) of the event: K. Sri Bhandhavi

Date of the Event: 05/09/20 Time of the Event: 10:00-12:00 Venue of the Event: C8

List of Students Attended: 24

S.No	Roll Number	Name	Branch	Year	Signature of the student
1	25A31A4405	G. Ruchitha	DS-A	2nd	G. Ruchitha
2	25A31A4420	N. Manju	DS-A	2nd	N. Manju
3	25A31A4408	J. Tejaswini	DS-A	2nd	J. Tejaswini
4	25A31A4418	MD. Noor Suphiya	DS-A	2nd	MD. Noor Suphiya
5	25A31A44F4	P. Siva Thanu Sri	DS-C	2nd	P. Siva Thanu Sri
6	25A31A44F5	D. Siddi Sahasra	DS-C	2nd	D. Siddi Sahasra
7	25A31A44D8	D. Geetika	DS-C	2nd	Geetika
8	25A31A44F1	N. Neehani	DS-C	2nd	Neehani
9	25A31A4411	Koppisetty, Spandana	DS-A	2nd	K. Spandana
10	25A31A4417	Mehnaz Ali	DS-A	2nd	Mehnaz Ali
11	25A31A4426	P. Geetha Sri	DS-A	2nd	P. Geetha Sri
12	26LECON4407	T. Madhu Supriya	DS-A	2nd	T. Madhu Supriya
13	24A31A4414	K. Pravallika	DS-A	2nd	K. Pravallika
14	24A31A4429	K.V.G. - Latha	DS-A	2nd	Latha
15	24A31A4430	V.S.A. Ambica	DS-A	2nd	Ambica
16	25A31A44D4	B.V.L. Navaneetha	DS-C	2nd	B.V.L. Navaneetha
17	25A31A44D6	Ch. Tyoshnam	DS-C	2nd	Tyoshnam
18	25A31A44F6	T. Rishitha	DS-C	2nd	T. Rishitha
19	25A31A4404	G. Mahima	DS-A	2nd	G. Mahima
20	25A31A4429	V. Tyosyna	DS-A	2nd	V. Tyosyna
21	25A31A4497	S. Vijayanyra	DS-B	2nd	S. Vijayanyra
22	25A31A4468	B.S.V. Divya Sri	DS-B	2nd	B. Divya
23	25A31A4490	P. Deepshikha	DS-B	2nd	P. Deepshikha
24	25A31A4484	M.L. Santoshi	DS-B	2nd	Santoshi

K. Ammani

K. Sri Bhandhavi

Name of the Student Coordinator

Signature of the Faculty Coordinator



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Time of the Event: 10:00-12:00

Venue of the Event: CF8

List of Students Attended: 19

S.No	Roll Number	Name	Branch	Year	Signature of the student
1	25A31A4499	V.B.S.S. Deepika	DS-B	II nd	<u>Deepika</u>
2	25A31A4419	MD. Sameena	DS-A	II nd	<u>SD</u>
3	25A31A4429	V. Jyothsna	DS-A	II nd	<u>JD</u>
4	25A31A4404	G. Mahima	DS-A	II nd	<u>GM</u>
5	25A31A4403	E. Vidyadhar Choudhary	DS-A	II nd	<u>E. Vidyadhar</u>
6	25A31A4422	P. Gayathri Hamsani	DS-A	II nd	<u>P. Gayathri</u>
7	25A31A4427	B. Bhavana	DS-A	II nd	<u>Bh</u>
8	25A31A4470	B. Thanishka padma	DS-B	II nd	<u>B. Thanishka</u>
9	25A31A4431	Ch. Ruchitha	DS-B	II nd	<u>Ch. Ruchitha</u>
10	25A31A4494	R. Lakshmi	DS-B	II nd	<u>R. Lakshmi</u>
11	25A31A4481	L. Mildred	DS-B	II nd	<u>Mildred</u>
12	26LECON4409	M. Veeralakshmi	DS-B	II	<u>MV</u>
13	26LECON4401	M. Satya	DS-B	II	<u>MS</u>
14	25A31A4410	Kalyani. Kamireddy	DS-A	II	<u>Ka</u>
15	26LECON4402	D. Bhavya Naga Sree	DS-C	II nd	<u>D. Bhavya Naga Sree</u>
16	26LECON4413	S. Santhi Kumari	DS-C	II nd	<u>S. Santhi Kumari</u>
17	26LECON4418	D. Aneesh	DS-C	II nd	<u>D. Aneesh</u>
18	25A31A4421	Haritha. Namadhi	DS-A	II nd	<u>Haritha</u>
19	25A31A4424	P. Jabbari Sai Mounika	DS-A	II nd	<u>P. Jabbari</u>
20					
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24					

K. Ammani

Name of the Student Coordinator

[Signature]

Signature of the Faculty Coordinator



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List of Students Attended: 10

S.No	Roll Number	Name	Branch	Year	Signature of the student
1	25A31A4450	M. Khosim	CSD	2nd	M. Khosim
2	25A31A4451	N. Nagendra	CSD-C	2nd	N. Nagendra
3	25A31A4457	P. Manu	CSD	2nd	P. Manu
4	25A31A4452	K. Rakesh	CSD	2nd	K. Rakesh
5	25A31A4465	M. Sai Vignesh	CSD	2nd	M. Sai Vignesh
6	25A31A4456	P. Purna Sai Vinay	CSD	2nd	P. Purna Sai Vinay
7	25A31A4445	D. Naveen	CSD-B	2nd	D. Naveen
8	25A31A4468	G. Bharu Prakash	CSD-C	2nd	G. Bharu Prakash
9	25A31A4459	S. David Jeddiah	CSD-A	2nd	S. David Jeddiah
10	25A31A4454	R. Hari Venkat	CSD-C	2nd	R. Hari Venkat
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N. Chandrasekhar

AG