



**SRI VENKATESWARA COLLEGE OF ENGINEERING AND TECHNOLOGY
(AUTONOMOUS)
R.V.S. NAGAR, CHITTOOR-517127, ANDHRA PRADESH
DEPARTMENT OF INFORMATION TECHNOLOGY**

CIRCULAR

Date: 23-03-2023

It is hereby informed that our department is planned to organize an Online Guest Lecture for all the III Year students of IT department on the topic "Machine Learning and its Applications" on 24-03-2023. All the students are instructed to use this opportunity and attend the same without fail.


HoD-IT

Copy to:

1. Principal sir for kind information
2. Circulate among the faculty
3. Circulate among the students



**SRI VENKATESWARA COLLEGE OF ENGINEERING & TECHNOLOGY
(Autonomous)**

RVS NAGAR, TIRUPATI ROAD, CHITTOOR (A.P)- 517127.

Department of Information Technology

Cordially invite you to the Expert Guest Lecture on
“Machine Learning and its Applications”

Resource Person:

Mrs. M. FATHIMA BEGUM, M.E., (Ph.D)

Designation / School: **Assistant Professor Junior / SITE**

University: **Vellore Institute of Technology, Vellore.**

Date: **24/03/2023**

Time: **10.30 AM – 11.30 AM**

Event Coordinator

(Mr. P. NANDAKUMAR)

HoD - IT

(Dr. J. VELMURUGAN)



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(AUTONOMOUS)**

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DEPARTMENT OF INFORMATION TECHNOLOGY

Resource Person: Mrs. M. FATHIMA BEGUM, M.E., (Ph.D)

The Department of Information Technology has organized a one-day expert Guest lecture on "Machine Learning and Its Application" on 24/03/2023, Friday. The meeting was started by introducing the guest of honor. Mr. P. Nandakumar, Assistant Professor, Department of information technology introduced the resource person at 10.30 AM. The Head of the department Dr. J. Velmurugan highlights the significance of the event. The inaugural session ended at 10.35 AM.

The resource person Mrs. M. Fathima Begum started the session with an introduction to Machine learning concepts. She explained the various algorithms which are involved in today's changing world. She explained the types of machine learning techniques such as supervised, unsupervised, and reinforcement learning and their applications of it. She explained with real-time examples very clearly and slowly for the students to understand the purpose and the session ended at 11.30 AM.

During the questionnaire session, students were asked many questions. Some are listed here

1. What are the uses of Machine learning in real-world problems?
2. What are the advantages and disadvantages of Machine learning?
3. How is supervised learning differs from unsupervised learning?
4. List the ways to improve the performance of machine learning algorithms for sampled datasets.
5. What are the python libraries used in Google Colab?

The resource person answered all the questions that are asked by the students. The program came to an end around 11.30 AM. Mr. P. Nandakumar, Assistant Professor from the IT department delivered the vote of thanks and the program ended at 11.35 AM.

Screenshot of presentation

Fathima Begum is presenting

MACHINE LEARNING AND IT'S APPLICATIONS

M.FATHIMA BEGUM,M.E(PhD),
Assistant Professor Junior,
School of Information Technology and Engineering,
Vellore Institute of Technology,
Vellore.

1A1256 Deekshitha
36-prasad RP
1A1201 Akbar
1A1236- Pavithra
28 -Renuka Chow...
1A1202 Aman Ku...
54 others
You

Tracking Started 4 min 15s ago
Click To Generate Report

Fathima Begum is presenting

Machine Learning

Learning is any process by which a system improves performance from experience.

Machine Learning is concerned with computer programs that automatically improve their performance through experience.

1A1227-ghovani Ramaswamy has left the meeting

Tracking Started 5 min 3s ago
Click To Generate Report

1A1256 Deekshitha
36-prasad RP
1A1201 Akbar
28 -Renuka Chow...
57 others
You

Fathima Begum is presenting

Machine Learning

The diagram illustrates the machine learning process flow:

```

    graph LR
      A[(MINING DATA)] --> B[Learning Algorithm]
      B --> C[Trained Machine]
      C --> D[Answer]
  
```

Below the diagram, a large question mark is displayed.

Participants in the session include:

- Fathima Begum
- Surpreed RP
- TAIZSA Deekshitha
- 37-Sannapaneni L...
- TAIZSA Laleesh
- Sushar Chowdhry
- TAIZSA Fathima
- 68 others
- You

It's application - Webinar

Fathima Begum is presenting

2. UCI MACHINE LEARNING REPOSITORY

The link for the UCI machine learning repository is <https://archive.ics.uci.edu/ml/index.php>

The screenshot shows the UCI Machine Learning Repository website. The main heading is "UCI Machine Learning Repository". Below it, there is a search bar and a link to "View ALL Data Sets".

On the left, there is a sidebar with filters for "Browse Through" and "495 Data Sets". The filters include "Dataset Type", "Data Type", and "Data Source".

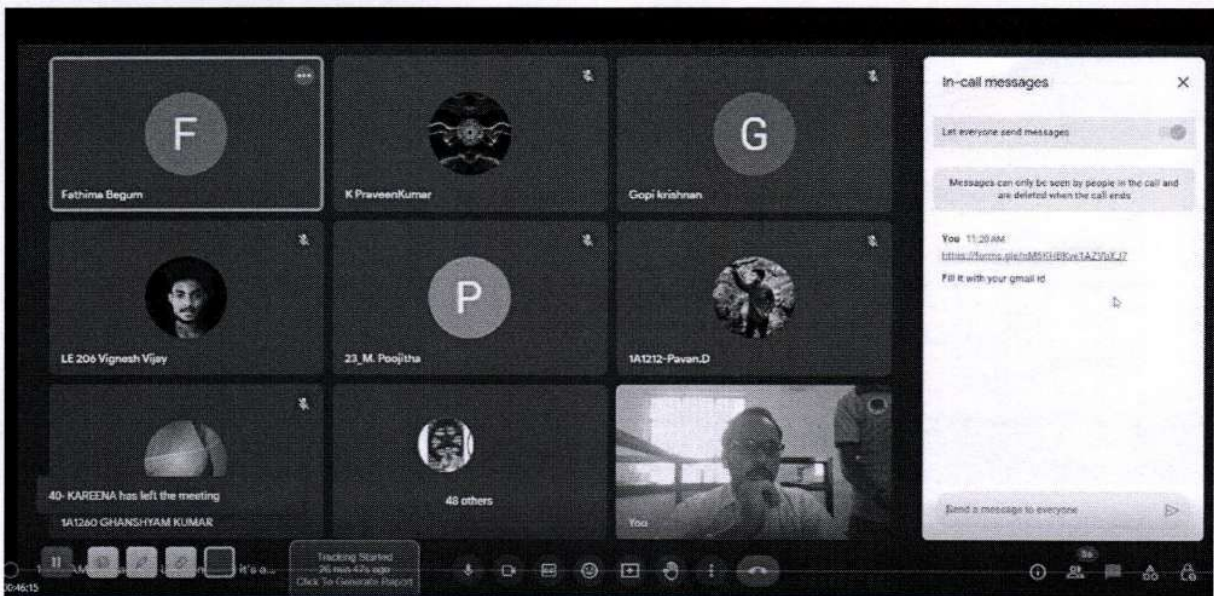
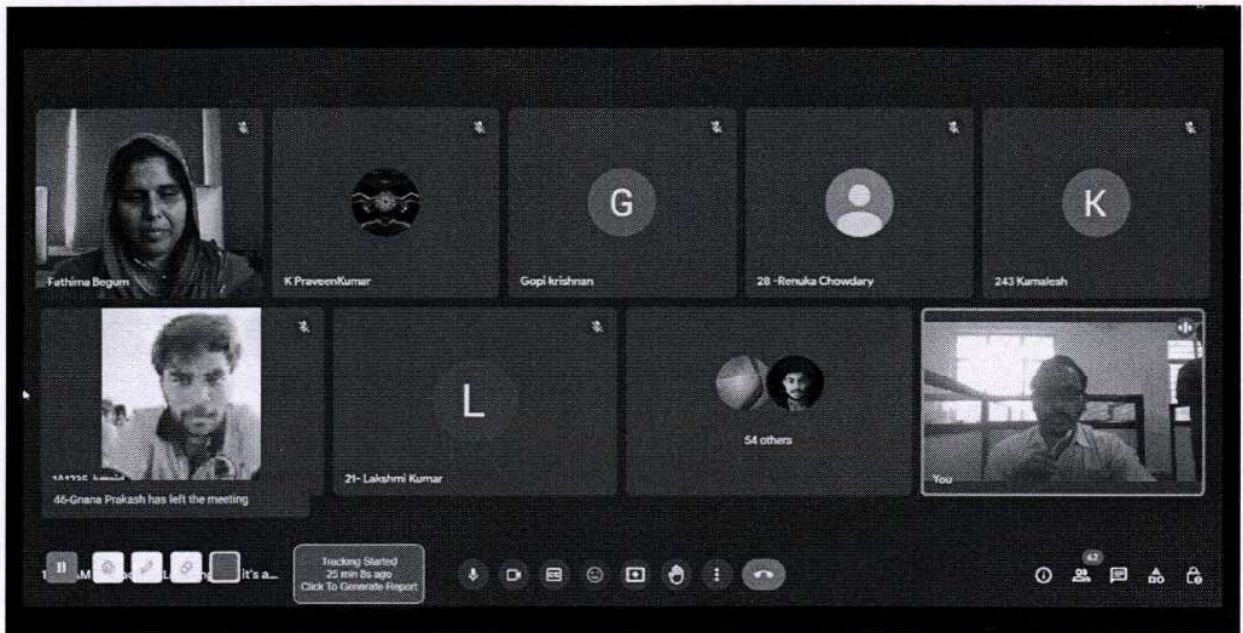
The main content area displays a table of datasets. The table has columns for "Dataset Name", "Data Source", "Default Task", "Attribute Type", "Instances", "Attribute Values", and "Total".

Dataset Name	Data Source	Default Task	Attribute Type	Instances	Attribute Values	Total
Abalone	Abalone	Classification	Continuous	1178	1	1178
Adult	Adult	Classification	Continuous	24740	14	1150
Animal	Animal	Classification	Continuous	100	10	100
Arrhythmia	Arrhythmia	Classification	Continuous	179	10	179
Arrhythmia	Arrhythmia	Classification	Continuous	179	10	179
Arrhythmia	Arrhythmia	Classification	Continuous	179	10	179

Participants in the session include:

- Fathima Begum
- You can't remove someone else
- 28-Renuka Chow...
- 243 Kamlesh
- 21-Lakshmi Kumar
- K Praveen Kumar
- Gopi Krishnan
- 61 others
- You

It's application - Webinar



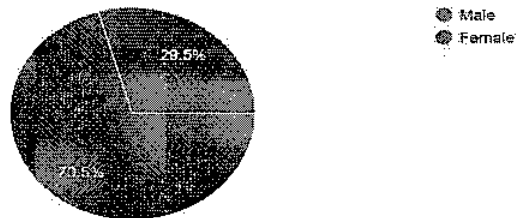
The registration link was shared with the students.

<https://forms.gle/Aw3HcSXLfYsSdSerDA>

Total number of students registered are 78. The details are given below:

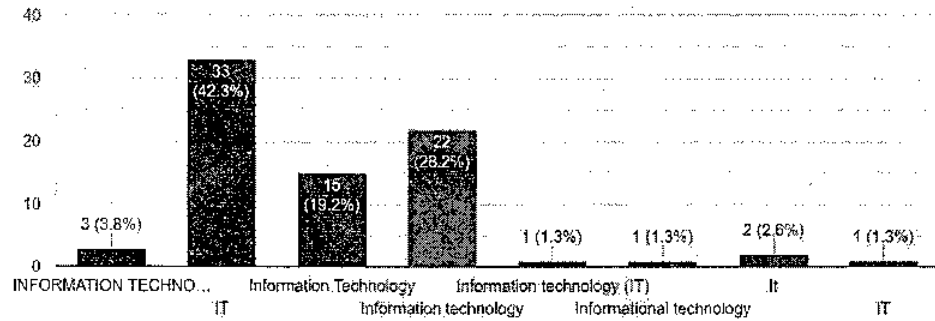
Gender

78 responses



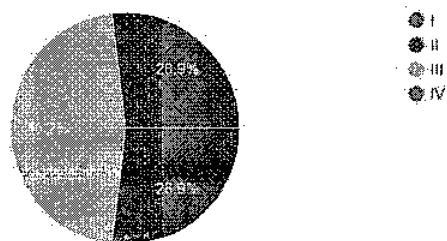
Department

78 responses



Year

78 responses



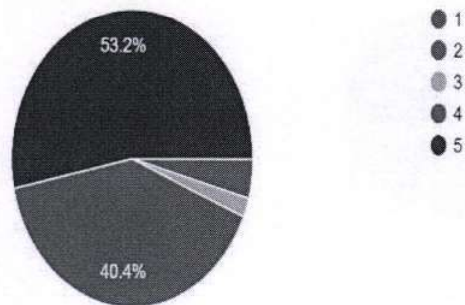
The feedback link was shared with the students.

<https://forms.gle/uHtETjbo7PMXwLWc7>

Responses are given below.

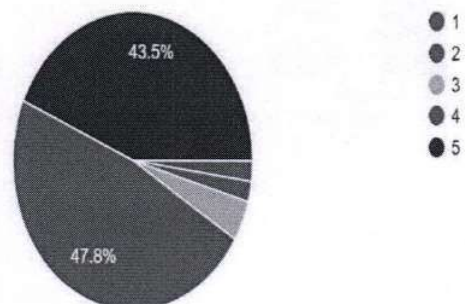
Does the webinar created a valuable impression?

47 responses



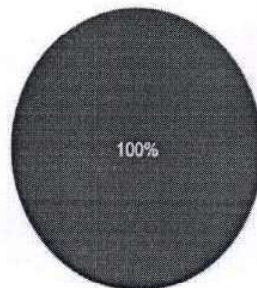
How relevant and helpful this webinar for your job?

46 responses



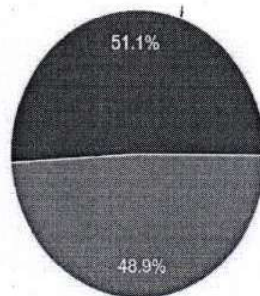
What is the most usable success strategy you gained from this webinar?

47 responses



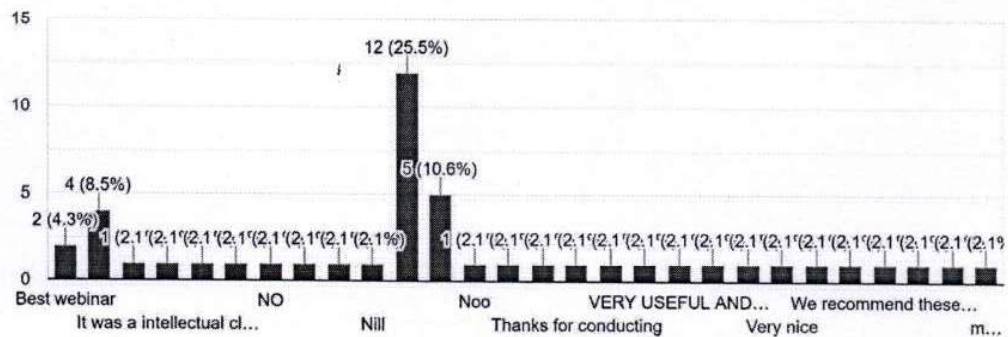
☒ Yes
☐ NO

47 responses



1
 2
 3
 4
 5

47 responses



EVENT CO-ORDINATOR


HoD - IT

10/10/10

Resource Person – Profile



FATHIMA BEGUM M

Tel.: +91 9894160580

E-mail: fathimabegum.it@gmail.com

Objective

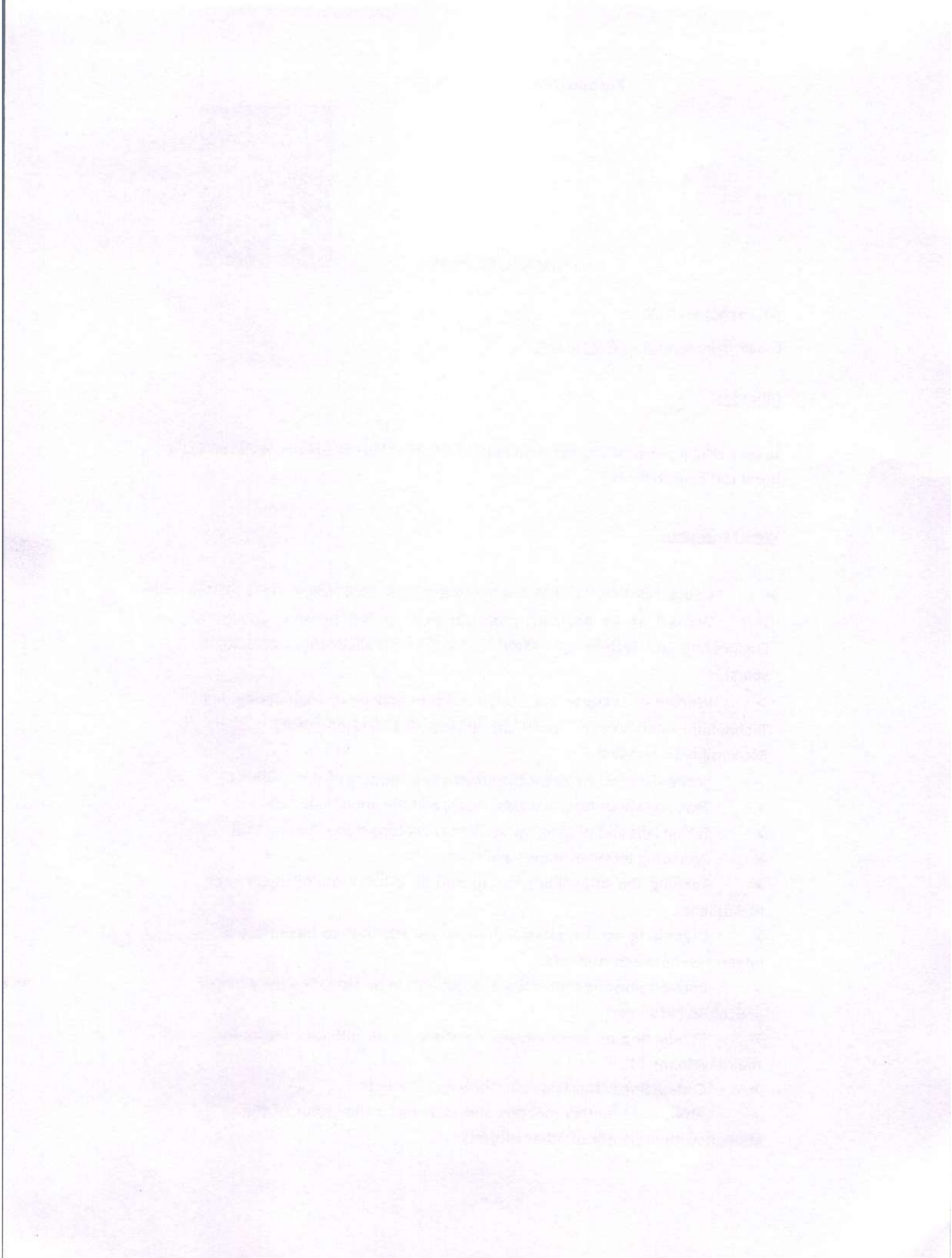
To get a challenging position of professor in which I can utilize my experience and make the bright carrier of students.

Work Experience

- Pursuing Full-Time PhD in Vellore Institute of Technology, Vellore. (June 2020 onwards)
- Worked as an Assistant professor in C. Abdul Hakeem College of Engineering and Technology –Melvisharam from 07.06.2015 to 28.5.2020(5 years).
- Worked as Lecturer in C. Abdul Hakeem College of Engineering and Technology –Melvisharam from 07.02.2011 to 28.2.2012(one year).

Responsibilities Handled

- Scheduling test to assess the growth and learning of the students.
- Teaching via using visual aids, slides, and the good materials.
- Taking labs and helping the students in getting done the practical.
- Preparing terminal papers and tests.
- Keeping the attendance record and all other required records of the students.
- Organizing various class and interclass activities to increase the interaction between students.
- Encouraging and motivating the students in participating the events and cultural activities.
- Conducting presentation by the students on different topics for their development.
- Conducting extra classes for the weak students.
- Attending monthly meeting and exchanging the status of the students with professor of other subjects.



Educational Qualification

Key skills

Computer skills : Microsoft office package & SQL Database, HTML, Visual Basic 6.0.

Operating System : Windows and Linux.

Languages : C, C++, Java, python.

Subjects Handled : Fundamentals of Computing, Software Engineering, Database Management System, Computer Networks, OOPS, Internet Programming, Machine Learning.

Area of Interest : Data Analytics, Machine Learning.

Journal Publications

- Published a paper entitled "**Location Of DDOS Botnet Attacks For Cyber Security**" in International Journal Of Current Engineering And Scientific Research ISSN (online): 2394-0697 Volume-5, Issue-3, 2018.(UGC APPROVED JOURNAL)
- Published a paper entitled "**Machine Learning and Data Mining Scheme in Cloud Using Distributed Snapshot Algorithm**" in International Journal of Current Engineering and Scientific Research ISSN (online): 2394-0697 Volume-5, Issue-3, 2018.(UGC APPROVED JOURNAL)
- Published a paper entitled "**Machine Learning on Event Streams in a Distributed Environment by a Stream learner**" in International Journal of Current Engineering and Scientific Research ISSN (online): 2394-0697 Volume-5, Issue-3, 2018.(UGC APPROVED JOURNAL)
- Published a paper entitled "**Clustering Web Documents to Bootstrap the Discovery of Web Services**" in International Journal for Science and Advanced Research in Technology (ISSN online: 2395 1052) Volume 3, Issue 2 Feb 2017.
- Published a paper entitled "**An Efficient Data Gathering and Aggregation for Multiple Applications in Wireless Sensor Networks**" in International Journal for Innovative Research in Science and Technology (ISSN online :2349 6010) Volume 2, Issue 2 April 2016.
- Published a paper entitled "**Improving Fairness and Stability in Network by Optimizing NUM (Network Utility Maximization) Problem**" in International Journal for Scientific and Research Development (ISSN online: 2321 0613) Volume 3, Issue 1 March 2015.

Workshops

- Participated in the one – day online workshop on "**Using LaTeX to create high-quality technical & scientific documents**" organized by SITE department on 23.02.2022 at Vellore Institute of Technology, Vellore.
- Participated in the one – day online workshop on "**Deep Learning for Data**

Analytics" organized by CSE department on 29.06.2021 at R.M.K College of Engineering & Technology, Chennai.

- Participated in the one – day workshop on **"Network Simulator (NS2)"** organized by CSE department on 24.02.2018 at C. Abdul Hakeem College of Engineering & Technology, Vellore.
- Participated in the two – day's workshop on **"Python programming and its application nn Machine learning"** organized by CSE department on 10.01.2018 & 11.01.2018 at C. Abdul Hakeem College of Engineering & Technology, Vellore.
- Participated in the one – day workshop on **"Grid and Cloud Computing"** organized by CSE department on 18.8.2016 at C. Abdul Hakeem College of Engineering & Technology, Vellore
- Participated in the one – day workshop on **"JAVA"** conducted by Oneyes Technologies on 6.9.2014 at C. Abdul Hakeem College of Engineering & Technology, Vellore.
- Participated in the one – day workshop on **"Survey on Research Methodology"** organized by ISTE CHAPTER on 11.12.2013 at C. Abdul Hakeem College of Engineering & Technology, Vellore.

Conferences

- Presented paper titled **" A Machine learning model for Acute Kidney Injury Prediction with novel kidney biomarkers "** on International Conference on Next Generation Intelligent Systems (ICNGIS 2022) on 29-30 July 2022 Organized by Rajiv Gandhi Institute of Technology, (Govt Engineering College) Kottayam, Kerala.

The paper is accepted for subsequent publication in IEEE DIGITALEXPLORE.

- Presented paper titled **" Location Of DDOS Botnet Attacks For Cyber Security"**, on International Conference on Technology and Advancement in Computing Applications" on 16th March 2018 at C.Abdul Hakeem College of Engineering and Technology.
- Presented paper titled **"Measuring the Similarity of the Signature by using Symbolic Representation and Fuzzy"** on International Conference on Technology and Advancement in Computing Applications" on 16th March 2018 at C.Abdul Hakeem College of Engineering and Technology.
- Presented paper titled **"Improving Fairness and Stability in Network Resource Allocation"**, on National Conference on recent trends in Information Technology" on 19th March 2015 at SKP Engineering College.

FDPs

- Participated in one week FDP titled **"Deep Learning and its Applications"** organized by Department of Computer Engineering, Mandal's Engineering college with IEEE Pune section, Pune from 30-01-2023 to 04- 02-2023.
- ☐ Participated in one day FDP titled **"Artificial Intelligence and its Industrial challenges"** organized by Academic Staff College, Vellore Institute of Technology, Vellore on 17-May-2022.
- Participated in five days FDP titled **"Applications of Machine Learning in the Post Pandemic Era"** organized by SITE department, Vellore Institute of Technology, Vellore from 04-07-2022 to 08- 07-2022.

- Participated in three days FDP titled **"Exploring perception of research through data science"** organized by Academic Staff College, Vellore Institute of Technology, Vellore from 18-07-2022 to 20-07-2022.
- Participated in five days FDP titled **"Computer Vision and Machine Intelligence"** organized by SITE department, Vellore Institute of Technology, Vellore from 27-06-2022 to 01-07-2022.
- Participated in two days National level online FDP titled **"Research Ethics"** organized by the Central Library, Vivekananda College, Madurai from 29-03-2021 to 30.03.2021.
- Participated in one day online FDP titled **"Research writing and publication"** organized by the IQAC, Institute of Rural Management, Jaipur from 13.03.2021.
- Attended one Day Faculty Development Programme on **"Active Learning"** on 21st April 2018 at C.Abdul Hakeem College of Engineering and Technology.
- Attended one Day Faculty Development Programme on **"Building Online Feedback Application using Google Apps"** on 31st Jan 2018 at C.Abdul Hakeem College of Engineering and Technology.
- Attended one Day Faculty Development Programme on **"Networking Simulation"** using Qualnet Software with DELLSOFT Technologies Pvt. Ltd on 07- 10- 2017.

Internships

- Completed one month Internship titled **"Artificial Intelligence using Python"** organized by Pantech Prolabs India Pvt Ltd, Chennai from 05-05-2021 to 04.06.2021.
- Completed seven days Bootcamp on **"Python and Deep Learning"** organized by ShapeAI, Google Developer group, Ranchi.

Online Courses

- Completed **"AI in Healthcare Capstone"** an online non-credit course authorized by Stanford University and offered through Coursera - Nov 10, 2021.
- Completed **"Evaluations of AI Applications in Healthcare"** an online non-credit course authorized by Stanford University and offered through Coursera - Nov 10, 2021.
- Completed **"Sequences, Time Series and Prediction"** an online non-credit course authorized by Stanford University and offered through Coursera - Oct 27, 2021.
- Completed **"Introduction to Clinical Data Science"** an online non-credit course authorized by University of Colorado System and offered through Coursera - Oct 27, 2021.
- Completed **"Fundamentals of Machine Learning for Healthcare"** an online non-credit course authorized by Stanford University and offered through Coursera - Sep 10, 2021.
- Completed **"Introduction to Healthcare"** an online non-credit course authorized by Stanford University and offered through Coursera - Sep 10, 2021.

- Completed **"Blockchain Basics"** an online non-credit course authorized by University of Colorado System and offered through Coursera – Mar 20, 2020.
- Completed **"Programming for Everybody (Getting Started with Python)"** an online non-credit course authorized by University of Michigan and offered through Coursera.
- Completed **"The Data Scientist's Toolbox"** an online non-credit course authorized by Johns Hopkins University and offered through Coursera.
- Completed **"Internet Connection: How to Get Online?"** an online non-credit course authorized by Cisco and offered through Coursera
- Completed **"Network Protocols and Architecture"** an online non-creditcourse authorized by Cisco and offered through Coursera.

Achievements

- In 10th, secured SCHOOL SECOND.
- Obtain SILVER MEDAL in second year & GOLD MEDAL in third & final year for Academic performance in Anna University.
- Obtain GOLD MEDAL for College Topper and University RankHolder.

Personal Profile

Date of Birth : 14/Dec/1986.
 Father's name : Mr.A.Mukthar Ali.
 Gender : Female.
 Contact At : No.27/1, A,Adavanandaleri
 streetR.N.Palayam, Vellore.
 Marital Status : Married
 Positive Traits : Polite, Supportive, and Buoyant.
 Languages known : READ & WRITE: English, Tamil.
 SPEAK: English, Tamil, Urdu, and Hindi.
 Nationality : Indian.

Declaration

I do hereby declare that the particulars of information and facts stated herein above are true, correct and complete to the best of my knowledge and belief.

Place : Vellore

Signature

Date : 24-03-2023

[M.Fathima Begum]

Student Attendance

Name to be printed on the certificate:
(Ex: Mr. A. KUMAR / Ms. B. SELVI)

K Lokesh

T.kalyani

Ms.Namburi Likhitha Priya

MIDIGES) PRAVEEN KUMAR REDDY

Mr.G.Lokesh

Katakam Anitha

Ms.V. Deekshitha

Ms.Lokaprabhu Chithrakala

K.Tejaswini

P VENKATA VIGNESWAR

VADDE BABU Mr.P.PARDHA

SARADHI Mr. P. MANI SANKAR

Ms. G.Sai Lakshmi

Mr. D. KOUSHIK

Mr. M. SAI CHARANMr.

B. AKASH

Mr. B. PAVAN KUMAR

Ms. B. Kusuma Ms.

A. Varshitha

Mr.P.MD JUNAID

SWARNA PAVAN

V.SRAVAN KUMAR

Mr k.Gopi

Ms. Y.Nandini

Mr.T.Pavankumar

Mr.ANDE VASU

Mr.B.Srikanth reddyB

SAI KIRAN

Mr.v.Manjunadha Reddy MR

Tharun kumar

PUCHAKAYALA VISHNU TEJAMr.

PAVAN DHARMAVARAM

P. Samana

Mr.Hameed Basha Gandluru

B.Abdul shukur

K PRAVEEN KUMAR

Ms.B.SELVI