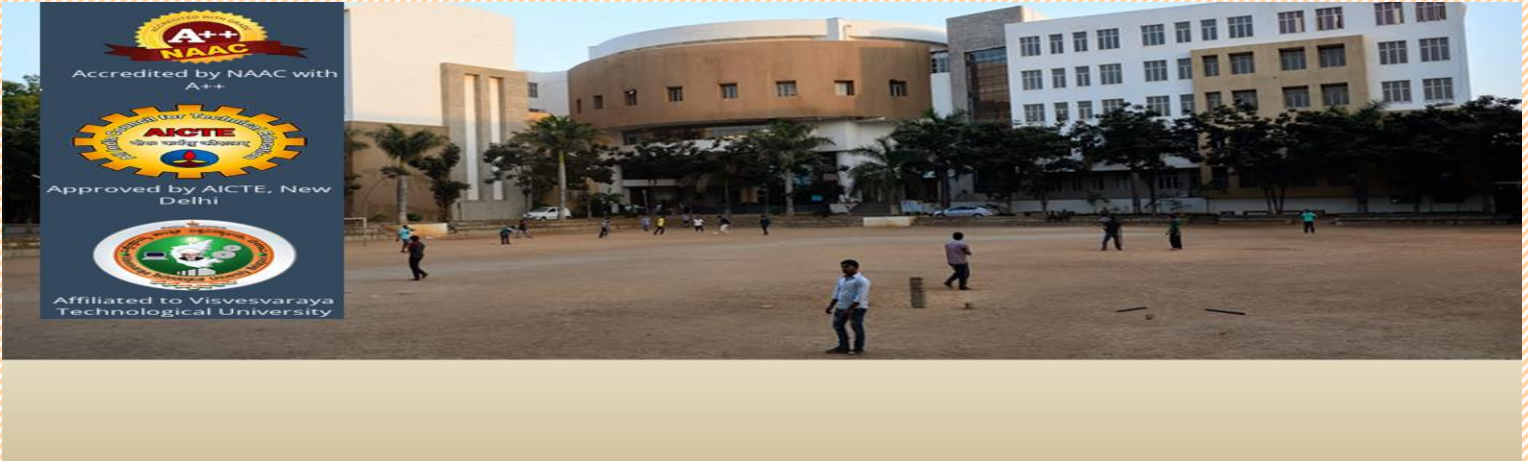


INFO-RISES

VOLUME 7, ISSUE 5, AUGUST 2022- MARCH 2023
DEPARTMENT OF INFORMATION SCIENCE AND
ENGINEERING



CMR INSTITUTE OF TECHNOLOGY



DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING
INFO-RISES 2022-23 ODD SEMESTER

VOLUME 7 ISSUE 5



Dr. Sanjay Jain
Principal

DEPARTMENT VISION

“To empower our students with necessary domain knowledge and professional skills in information technology for a global career to serve the society.”



Dr. B. Narasimha Murthy
Vice-Principal

DEPARTMENT MISSION

To build a faculty team with industry and academic exposure, capable of empowering and equipping students with necessary domain knowledge.

To prepare the students for a global career in computing by enriching the curriculum with a blend of theory and practice.

To develop industry relevant technical and communication skills with cross-cultural sensitivity through training programs, vibrant student clubs and student internships.

To engage with industry and institutes of repute and collaborate in academics, research and development involving faculty and students.

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Editorial Team

Mr. Harish. L
Assistant Prof.
Dept. of ISE, CMRIT

Mrs. Christlin Shanuja
Assistant Prof.
Dept. of ISE, CMRIT

MESSAGE FROM HOD



Indeed, it creates immense pleasure in writing this message which spreads positive vibrancy among all of us. CMR Institute of Technology conducts various activities for the benefit of students, faculty, and society. This newsletter is the epitome of the success stories of these events. These kinds of proud moments encourage the student's community to move to higher levels in Academia, Sports and other activities. We, the faculty of ISE strive to impart our best in terms of knowledge dissemination and bring out our students with a holistic personality. Our initiatives definitely mold the students such that they face the external world with prompt technical, interpersonal and problem-solving skills. I thank the faculty who are involved in this newsletter making for their real efforts. I appreciate all who did a great job of winning competitions and brought accolades to CMRIT. I wish all our students and faculty a stupendous success in upcoming activities!!!!

*- Dr. M. Farida Begam
HOD, Dept. of ISE*

CLUB ACTIVITIES

Sl.No	CLUB NAME	EVENT	DATE OF CONDUCTION
1	Google DSC		
2	CodingNinjas		
3	RISE		



INDUSTRY CONNECT

Expert Talk on **Cybersecurity Innovations & Disruptions** by **Dr Swetha M S** Asst. Prof. Dept. of ISE, BMS Institute of Technology, Bengaluru on July 14th 2023.



The poster is for an expert talk organized by CMRIT Bengaluru. It features the CMRIT logo at the top left and the Institution's Innovation Council logo at the top right. The text in the center reads: 'CMR INSTITUTE OF TECHNOLOGY BENGALURU Department of Information Science and Engineering is organizing an Expert Talk on Cybersecurity Innovations & Disruptions by Dr Swetha M S Assistant Professor, Information Science & Engineering, BMS Institute of Technology & Management, Bengaluru'. Below this, it provides the date (14th June 2025), time (1:30pm to 3pm), meeting link (<https://shartur.at/b1pCW>), and registration link (<https://forms.gle/GZsvbTM9a3ztlvVA>). At the bottom, it lists three organizers: Dr. Poorani M (Asst. Prof., Dept. of ISE, Contact: 8754408132, E-mail: poorani.m@cmrit.ac.in), Dr. M. Farida Begam (HOD-ISE, CMRIT), and Dr. Sanjay Jain (Principal, CMRIT).

Expert Talk on **Innovative applications in Block Chain Technology** by **Dr H Shaheen** Associate Professor, Faculty of Computing and Engineering, University of West London, RAK, UAE on June 31st 2023.




CMR INSTITUTE OF TECHNOLOGY
BENGALURU

Department of Information Science and Engineering
is organizing an Expert Talk on

**Innovative Applications in Block Chain
Technology**

by



Dr. H Shaheen
Associate Professor,
Faculty of Computing and Engineering, University of West London,
RAK, UAE

Date : 31st May 2023
Time : 1.30pm to 3pm
Meeting Link : <https://shorturl.at/gesCY>
Registration Link : <https://forms.gle/PKSF6GknsJLjg3Jl7>

Organizers:

Dr. Poorani M Asst. Prof. Dept. of ISE Contact:8754408132 E-mail: poorani.m@cmrit.ac.in	Dr. M. Farida Begam HOD-ISE CMRIT	Dr. Sanjay Jain Principal CMRIT
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Expert Talk on **Innovative Applications using Open-Source Technologies** by **Mr. Sunil Angadi** Test Developer, IBM, Bangalore on April 5th 2023.




CMR INSTITUTE OF TECHNOLOGY
BENGALURU

Department of Information Science and Engineering
is organizing an Expert Talk on

**Innovative Applications using Open-Source
Technologies**

by



Mr. Sunil Angadi
Test Developer,
IBM, Bengaluru

Date : 05th April 2023
Time : 1.30pm to 3pm
Venue : 2nd Floor AV Hall, Civil Block, CMRIT
Registration Link : <https://forms.gle/Y4V7YksA6TP3KivA6>

Organizers:

Dr. Poorani M Asst. Prof. Dept. of ISE Contact:8754408132 E-mail: poorani.m@cmrit.ac.in	Dr. M. Farida Begam HOD-ISE CMRIT	Dr. Sanjay Jain Principal CMRIT
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Under Industry Connect Activities Dept. of ISE organized industrial visit to Airport Authority of India



CENTER OF EXCELLENCE

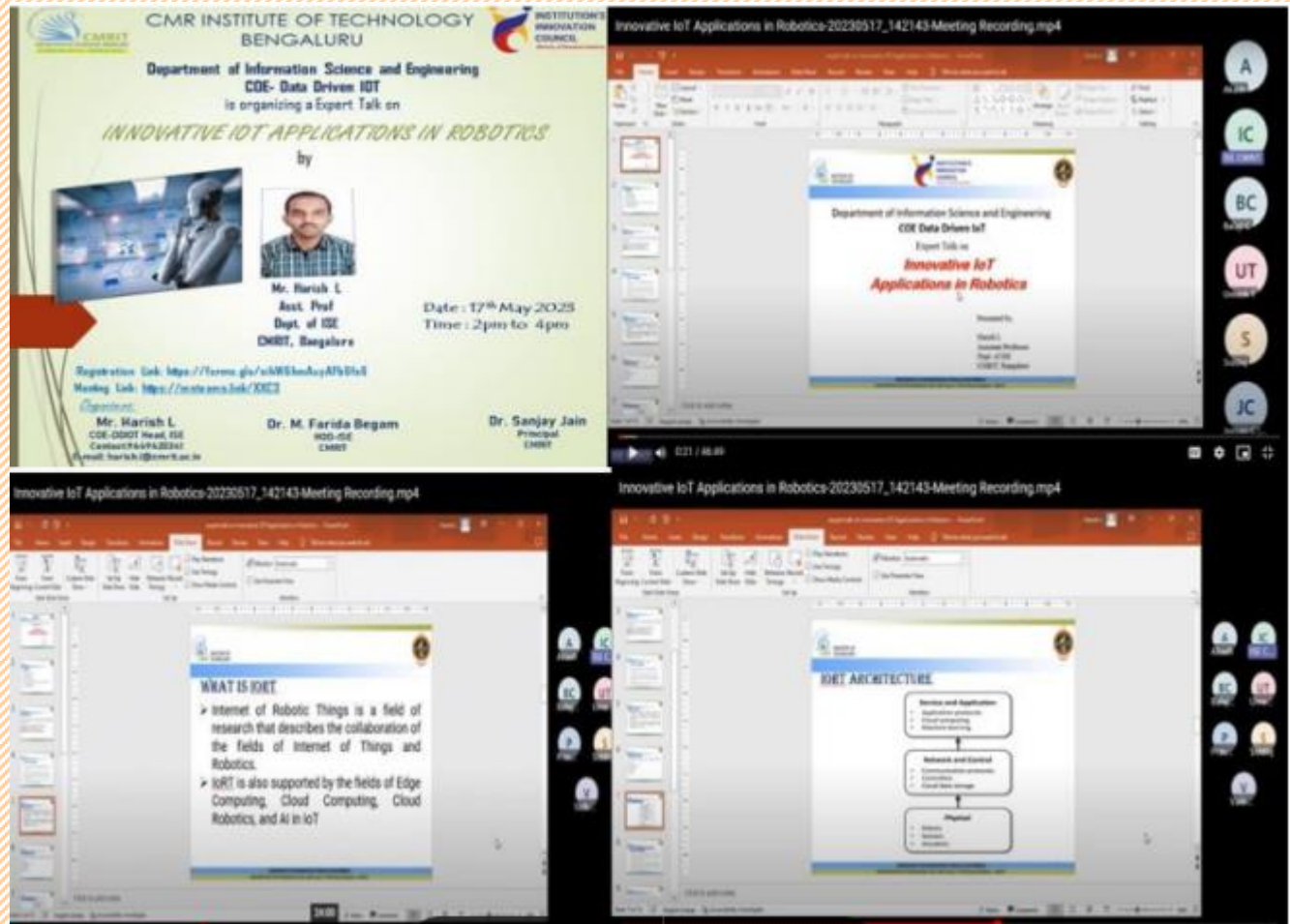
COE Data Driven IoT has successfully conducted Expert Talk on “Research Opportunities in IoT using Data Science” by Dr. Poorani M, Asst. Professor, Dept. of ISE, CMRIT, Bengaluru on March. 03rd 2023.



COE Data Driven IoT has successfully conducted Expert Talk on “Innovative IoT Applications and Use cases” by Mr. Harish L, Asst. Professor, Dept. of ISE, CMRIT, Bengaluru on March. 29th 2023.



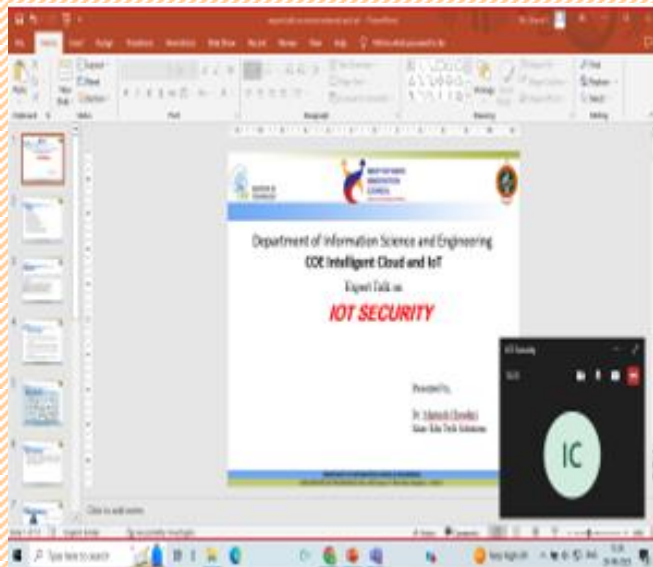
COE Data Driven IoT has successfully conducted Expert Talk on “**Innovative IoT Applications in Robotics**” by Mr. Harish L, Asst. Professor, Dept. of ISE, CMRIT, Bengaluru on May, 17th 2023.



COE Data Driven IoT has successfully conducted Expert Talk on “**Smart Networks and IOT**” by Mr. Harish L, Asst. Professor, Dept. of ISE, CMRIT, Bengaluru on Aug. 23rd 2023.



COE Data Driven IoT has successfully conducted Expert Talk on “IoT Security” by Dr. Mahantesh R Choudhari, Director Marc Edu Tech Solutions, Bangalore on August 26th 2023.



COE Data Driven IoT has successfully conducted Expert Talk on “Smart Manufacturing and IOT” by Mr. Harish L, Asst. Professor, Dept. of ISE, CMRIT, Bengaluru on August. 31st 2023.



FACULTY TECH TALK

Faculty members in the department have given a tech- talk on latest trends software tools and research focused topics related to ISE.

FACULTY	TOPIC
Dr. Sudhakar K.N	HTMX
Dr R.Anand	Testcase generation using TestNG
Mrs. Shilpa Pandey	Shapash
Dr.Srividya.R	IOT Data Security
Ms Sugunadevi C	Cafe
Dr Swathi Y	CAFFE & YOLO
Dr M. Farida Begam	Text Analytics using NLTK & ML
Vyshali Rao	Interfacing IOT devices with android application
Dr Mannar Mannan J	Q Designer



FACULTY PUBLICATIONS

Dr. M. Farida Begam has published a paper titled “Automated Medical Recommendation System using Machine Learning Techniques & Natural Language Processing” in 3rd International Conference on Communication, Computing and Industry 4.0 (C2I4).

Dr. Senthil Velan S has published a paper titled “Application of Waning Immunity Index Model using Spiking Neural Networks for COVID-19 Pandemic in the geographic context of India” in 2nd International Conference on Advances in computing, communication and Applied Informatics (ACCAI).

Dr. Senthil Velan S has published a paper titled “Application of SVM Classifier to model and analyse the Popularity of Games using Players feedback” in 2nd International Conference on Advances in computing, communication and Applied Informatics (ACCAI).

Dr. Senthil Velan S has published a paper titled “Multiple Lung Disease Prediction Using Deep Learning” in 14th International Conference on Computing, Communication and Networking Technologies (ICCCNT 2023).

Dr. Senthil Velan S has published a paper titled “Emotion Detection and Suicidal Intention Prediction of Differently Depressed Individuals Using Machine Learning Techniques” in 15th International Conference on Computing, Communication and Networking Technologies (ICCCNT 2023).

Dr. Senthil Velan S has published a paper titled “A Novel Model Using Multiple Bagging Ensemble Method For Measuring, Inferring and Predicting the Quality of Continuous Assessment Question Papers” in 16th International Conference on Computing, Communication and Networking Technologies (ICCCNT 2023)

Dr. Seetha S has published a paper titled “Sign Language to sentence interpreter using CNN” in 5th international conference on CIPR on May 28th West Bengal, 2023

Mrs. Vyshali Rao. has published a paper titled “Assistive Application for the Visually Impaired using IOT and Machine Learning” in ICRTEC-23: International conference on recent trends in electronics and communications, Aug 2022

Mrs. Devisivasankari P has published a paper titled “The Enhanced Optimization of Information Mining Systems For Big Data Protection Using Blockchain” in Eur. Chem. Bull. 2023, 12 (S3), 1835 – 1847

Mrs. Devisivasankari P has published a paper titled “Various Approaches in Deep Learning for Medical Modality Image Segmentation” in International Conference on Advances in Electronics, Communication, Computing and Intelligent Information Systems (ICAECIS).

Mrs. Nidhi Joshi P has published a paper titled “Data Augmentation based Malware Classification,” in International Conference on Recent Advances in Engineering and Computer Applications-2023, Hybrid Conference (ICRAECA) (15 July 2023)

Mrs. Nidhi Joshi P has published a paper titled “Unleashing the Power of Machine Learning: Enhancing Traffic Prediction in Smart Transportation Systems,” in International Organization of Scientific & Research (IOSR)

Mrs. Aparna N has published a paper titled “Decision Tree-Based Explainable AI for Diagnosis of Chronic Kidney Disease” in 5th International Conference on Inventive Research in Computing Applications ICIRCA 2023

Mrs. Aparna N has published a paper titled “Exploring Blockchain Solutions for Combating Fake Certificates” in Second International Conference on Augmented Intelligence and Sustainable Systems-ICAISS-2023.

Mrs. Aparna N has published a paper titled “A Secure NFT-Based System for

Eliminating Counterfeit Certificates” in 5th IEEE PhD Colloquium on Emerging Domain Innovation and Technology for Society.

PATENTS

Sl. No.	Name of the Faculty	Patent Title	Application No
1.	Dr M Farida Begam	E-Mithru – Adaptive Knowledge Management (Ontology) based framework for automated e-Mentoring and e-Counselling using ontology based Machine Learning and Recommendation Techniques	202341028362
2.	Dr Senthil Velan S	Adjustable and Customizable Step Ladder for Humans with different Heights and Capabilities	202341042258
3.	Dr Senthil Velan S	A Visual Mouse: Eye Movement and Voice Assistance based Mouse Control for A Personal Computer	202341042856
4.	Dr Senthil Velan S	An IoT Enabled and Voice Activated Multicolor In-Writing based FlowGel Pen	202341043842
5.	Dr Senthil Velan S	Blind Assist: Walking Assist Utility for the Blind	202341044241
6.	Dr Srividya R	An Innovative Smart Device for Visually Impaired Assistance using Renewable Resources	202341058022
7.	Dr Sudhakar K N	A Portable Assistive Vehicle Parking Device	202341028617
8.	Dr Anand R	IoT-enabled Smart Cap for Real-time Water Safety and Activity Monitoring in Pools	202341042193
9.	Dr Ramya C	Posture Corrector using IoT Sensors	202341026638
10.	Dr.S.Seetha	Fishermen Helper: Automatic alert generator using Sonar Images	202341039758
11.	Dr Mannar Mannan J	IoT Based Smart Walking Stick	202341039467
12.	Ms. Nidhi Joshi Parsai	Seamless Continuity: Reissuing the Namma Metro Card for Uninterrupted Commuting	202341043378
13.	Ms. Rakeeba Taseen	IoT based Smart Disposal Notifier using GSM	202341042977
14.	Ms. Rashmi D	Washing Machine Load Indicator	202341044688
15.	Ms. Rashmi D	A tool for formal verification of Timer based transition system using Timed Automata - Mealy Machine with one timer	202341044648
16.	Mr. Abhishek Midya	A Tool for Formal Verification of Timer Based Transition System using Timed Automata – Mealy Machine	202341044648

I & E CELL ACTIVITIES



Institution's Innovation Council Organized Three-day workshop on "Startup training" for 6th Sem ISE Students from 31st May 2023 to 2nd June 2023. The resource person is Naved A., Project Management, Business Consultant, Startup Investor, Karnataka

**I&E Cell of ISE Department
with IIC CMRIT**
organizing a workshop on
Startup Training for 6th Sem ISE students
by
Naved A.
Entrepreneur, Lean Startup Enthusiast, Karnataka

Day 1(31-05-23):- Two Dollar startup Activity (10 am to 1 pm)
Day 2(01-06-23):- Innovative Project Presentation (1 to 4 pm)
Day 3(02-06-23):- Startup Test (1 to 4 pm)

Date: 31st May 23 to 2nd June 23
Venue: II Floor MECH AV Hall

Registration Link : <https://forms.gle/tSkd3058YfbutJVES>

Organizers:
Dr. S. Seetha
I&E Head, ISE
Contact:7708406505
E-mail: seethas@cmrit.ac.in
Dr. M. Farida Begam
HOD-ISE
CMRIT
Dr. Sharmila K.P
IIC-President
CMRIT
Dr. Sanjay Jain
Principal
CMRIT



Institution's Innovation Council Organized World Environmental Day on 5th June 2023.


I&E Cell of ISE Department with IIC CMRIT


organizing a celebration for
"WORLD ENVIRONMENT DAY"
BEST OUT OF WASTE-COMPETITION
THEME: MOTHER EARTH



WIN EXCITING PRICES!!!
Scrap Material will be provided!

Student Coordinator:
Vignesh M, 111rd year, ISE

Date: 5th June 23
Venue: Old CDX
Time: 8AM-3PM

Registration Link: forms.gle/gvDtk206CrjagUue6f

Organizers:
Dr. S. Seetha ISE Head, ISE
 E-mail: seetha.s@cmrit.ac.in
Dr. M. Farida Begam HOD-ISE
 CMRIT
Dr. Sharmila K.P IC-President
 CMRIT
Dr. Sanjay Jain Principal
 CMRIT



INDUSTRY CONNECT ACTIVITIES ATTENDED BY FAULTY

SL NO.	FACULTY	EVENT/TOPIC	VENUE
1	Ms Aparna N FDP	Block Chain	20.03.2023 to 24.03.2023

17

FACULTY ACHIEVEMENTS

Dr. Anand R received an **Elite + Gold certificate** in the NPTEL exam for the MOOC Course "The Joy of Computing Using Python" in the April-May NPTEL exam



Mrs. Divya Singh received an **Elite + Silver certificate** in the NPTEL exam for the MOOC Course "The Joy of Computing Using Python" in the April-May NPTEL exam



Elite

NPTEL Online Certification
(Funded by the MoE, Govt. of India)

This certificate is awarded to
DIVYA SINGH
for successfully completing the course

The Joy of Computing using Python

with a consolidated score of **85** %

Online Assignments	24.94/25	Proctored Exam	59.69/75
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Total number of candidates certified in this course: **10672**

Devendra Jalihal
Prof. Devendra Jalihal
Chairperson,
Centre for Outreach and Digital Education, IITM

Jan-Apr 2023
(12 week course)

Prof. Andrew Thangaraj
Prof. Andrew Thangaraj
NPTEL, Coordinator
IIT Madras

Indian Institute of Technology Madras

Roll No: NPTEL23CS20S23232917 To validate the certificate No. of credits recommended: 3 or 4

Dr. Swathi Y received an **Elite + Silver** certificate in the NPTEL exam for the MOOC Course "Introduction to Machine Learning" in the Jan -April NPTEL exam



Elite

NPTEL Online Certification
(Funded by the MoE, Govt. of India)

This certificate is awarded to
DR SWATHI Y
for successfully completing the course

Introduction to Machine Learning

with a consolidated score of **84** %

Online Assignments	24.38/25	Proctored Exam	60/75
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Total number of candidates certified in this course: **1816**

Devendra Jalihal
Prof. Devendra Jalihal
Chairperson,
Centre for Outreach and Digital Education, IITM

Jan-Apr 2023
(12 week course)

Prof. Andrew Thangaraj
Prof. Andrew Thangaraj
NPTEL, Coordinator
IIT Madras

Indian Institute of Technology Madras

Roll No: NPTEL23CS18S53231693 To validate the certificate No. of credits recommended: 3 or 4

Mrs. Shilpa Mangesh Pande received an **Elite + Gold** certificate in the NPTEL exam for the MOOC Course "Data Mining" in the April-May NPTEL exam



Elite

NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to
SHILPA MANGESH PANDE
for successfully completing the course



Data Mining

with a consolidated score of **90** %

Online Assignments	23.75/25	Proctored Exam	66.25/75
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Total number of candidates certified in this course: **4368**

Jan-Mar 2023
(8 week course)

Prof. Debjani Chakraborty
Coordinator, NPTEL
IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No: NPTEL23CS43S34220568

To validate the certificate



No. of credits recommended: 2 or 3

STUDENT ACHIEVEMENTS

SL NO.	STUDENT	EVENT
1	Pannaga P S Kiran Basavaraj Kapsi Hari Krishna Prasad	Manthan-Fkcci Business Plan Competition
2	Lenordo	First Place in VTU Bangalore Central Division Volleyball (M) Tournament
3	Swathi P Reddy	Runner Up in Bangalore Times Fresh Face Season 14
4	Navya Narayan	Second place in Magnovite, an Inter collegiate Technical Fest and cash prize of 5000/-



PLACEMENTS

COMPANY IN WHICH PLACED	STUDENT COUNT	PACKAGE
Linkwiz	1	20 LPA
AMADEUS	2	11.7 LPA
Epicor	1	9.25LPA
Ellucian	3	8.68 LPA
Surewaves	1	8.5LPA
Synthesis Systems	5	8.35LPA
Clarivate	8	8.24 LPA
Epsilon and Capgemini	2	7.79 LPA
Ellucian	1	7.6 LPA
Capgemini Senior Analyst	1	7.6LPA
EY	1	7.6LPA
Deloitte	2	7.6 LPA
Koch	2	7.6 LPA
Hitachi Vantara	1	7.5 LPA
Capgemini Senior Analyst	2	7.5 LPA
Epsilon	1	7.5 LPA
Clarivate	3	7.5 LPA
Oracle	1	7.5LPA
Capgemini	1	7.5LPA
Cognizant GenC	2	7.5LPA
Accenture 2	1	7.5LPA
Capgemini Analyst-1	1	7.5LPA