

**SONA** COLLEGE OF  
TECHNOLOGY  
Learning is a Celebration!



**Department of Information Technology**

**B. Tech -IT B. Tech-AI&DS M.Tech-IT**

**INFOZYN MAGAZINE**

**2022-2023**

# INFOZYN MAGAZINE 2022-2023

## INFORMATION TECHNOLOGY - VISION AND MISSION

### **VISION OF THE DEPARTMENT**

To become a front-runner in preparing graduates to be efficient problem solvers, researchers, innovators and entrepreneurs, and making them competent professionals by enabling them to take up any kind of challenges in Information Technology industry or research organizations they serve.

### **MISSION OF THE DEPARTMENT**

<b>MD1</b>	Offer high-quality undergraduate and post graduate programs in order to prepare our graduates to become leaders in their profession.
<b>MD2</b>	Provide best infrastructure facilities to achieve excellence in teaching-learning process and research
<b>MD3</b>	Enhance the students' knowledge in the latest technologies by organizing and participating in technical programs.
<b>MD4</b>	Provide suitable forums to exhibit the creative talents of students and faculty members.
<b>MD5</b>	Prepare the students and faculty to solve challenging real world problems through strong research and development.

## **Program Educational Objectives (PEOs)**

In their careers, our graduates will

1. Implement computing solutions for real world problems and carry out basic and applied research leading to new innovations in Information Technology (IT) and related interdisciplinary areas.
2. Apply knowledge of societal impacts of information technologies in the course of their career related activities ethically and appropriately.
3. Have strong communication and interpersonal skills, broad knowledge, and an understanding of multicultural and global perspectives to work effectively and ethically in multidisciplinary teams, both as team members and leaders.
4. Engage in life-long learning, to remain current in their profession and obtain additional qualifications to enhance their career positions in IT industries.

## **Programme Specific Outcome (PSO)**

- On completion of the B.Tech (Information Technology) degree the graduates will be able to
- Analyze and recommend the appropriate IT infrastructure required for the implementation of a project.
- Design, develop and test software systems for world-wide network of computers to provide solutions

## **Contents**

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## FACULTY ACHIEVEMENTS

**Dr.J.Akilandeswari, HOD/IT**, has been honored as “**Best Academician Award**” by IEI Tamilnadu State Centre during the Centenary Celebration at Tamilnadu State Centre on 15.12.2022.



Dr .V. Mohanraj-**Porf/IT**,Dr. J. Senthilkumar-**Porf/IT&**Dr. Y. Suresh-**Porf/IT**has been recognized as “**TOP PERORMIG MENTOR** ” by NPTEL,IIT Madras during July 2022 to December 2022.



**NPTEL** **swayam**

**CERTIFICATE OF APPRECIATION**  
is awarded to

**Y SURESH**  
SONA COLLEGE OF TECHNOLOGY  
SALEM, TAMIL NADU

in recognition of his/her role as mentor for the NPTEL Online Certification course

**INTRODUCTION TO INTERNET OF THINGS**

**JUL - DEC 2022**

Members Enrolled	Members Present	Score (in %)	Certified (Score in %)				
			<40	40-59	60-74	75-89	>=90
32	32	0	2	18	12	0	5

PROF. ANDREW THANGARAJ  
NPTEL Coordinator  
IIT Madras



**NPTEL** **swayam**

**CERTIFICATE OF APPRECIATION**  
is awarded to

**J SENTHILKUMAR**  
SONA COLLEGE OF TECHNOLOGY  
SALEM, TAMIL NADU

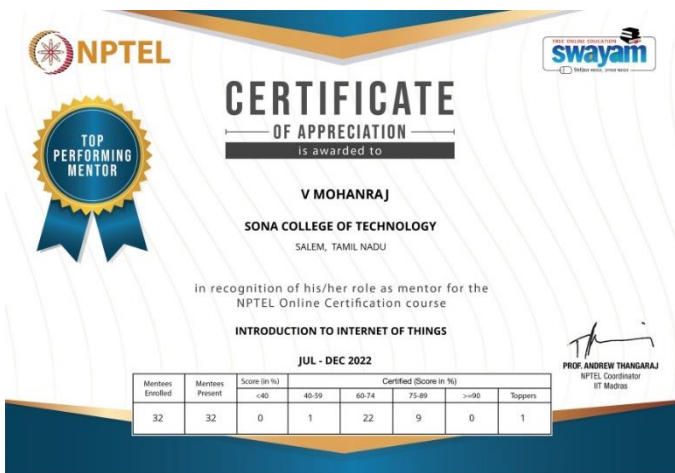
in recognition of his/her role as mentor for the NPTEL Online Certification course

**INTRODUCTION TO INTERNET OF THINGS**

**JUL - DEC 2022**

Members Enrolled	Members Present	Score (in %)	Certified (Score in %)				
			<40	40-59	60-74	75-89	>=90
55	54	2	5	38	9	0	5

PROF. ANDREW THANGARAJ  
NPTEL Coordinator  
IIT Madras



**NPTEL** **swayam**

**CERTIFICATE OF APPRECIATION**  
is awarded to

**V MOHANRAJ**  
SONA COLLEGE OF TECHNOLOGY  
SALEM, TAMIL NADU

in recognition of his/her role as mentor for the NPTEL Online Certification course

**INTRODUCTION TO INTERNET OF THINGS**

**JUL - DEC 2022**

Members Enrolled	Members Present	Score (in %)	Certified (Score in %)				
			<40	40-59	60-74	75-89	>=90
32	32	0	1	22	9	0	1

PROF. ANDREW THANGARAJ  
NPTEL Coordinator  
IIT Madras



**NPTEL** **swayam**

**CERTIFICATE OF APPRECIATION**  
is awarded to

**THANGARAJ K**  
SONA COLLEGE OF TECHNOLOGY  
SALEM, TAMIL NADU

in recognition of his/her role as mentor for the NPTEL Online Certification course

**CLOUD COMPUTING**

**JUL - DEC 2022**

Members Enrolled	Members Present	Score (in %)	Certified (Score in %)				
			<40	40-59	60-74	75-89	>=90
69	68	2	10	36	20	0	7

PROF. ANDREW THANGARAJ  
NPTEL Coordinator  
IIT Madras



**NPTEL** **swayam**

**CERTIFICATE OF APPRECIATION**  
is awarded to

**J. DEEPIKA**  
SONA COLLEGE OF TECHNOLOGY  
SALEM, TAMIL NADU

in recognition of his/her role as mentor for the NPTEL Online Certification course

**DESIGN & IMPLEMENTATION OF HUMAN-COMPUTER INTERFACES**

**JUL - DEC 2022**

Members Enrolled	Members Present	Score (in %)	Certified (Score in %)				
			<40	40-59	60-74	75-89	>=90
1	1	0	0	0	1	0	1

PROF. ANDREW THANGARAJ  
NPTEL Coordinator  
IIT Madras

**Dr.K.THANGARAJ-ASP/IT, has been honored as “STAR WITH OUR GREATEST APPRECIATION FOR THE SIGNIFICANT CONTRIBUTION TO THE MEMBERSHIP DRIVE 2021-2022 AWARD” by IEI Tamilnadu State Centre during the Centenary Celebration at Tamilnadu State Centre**



# **STUDENT ACHIVEMENTS**

## **PEER TUTOR SLECTED -2022-2023**

**YEAR : II ADS**

**SEMESTER : III & IV**

<b>S NO</b>	<b>Reg No</b>	<b>Name of the tutor</b>
1	61781921110001	AKIL SADIK M H
2	61781921110004	ASWINI R
3	61781921110006	BRINDHA S
4	61781921110011	DHAKSHNA SHREE
5	61781921110050	SINDHUJA P
6	61781921110053	SOWMYA R

**YEAR : III ADS**

**SEMESTER : V & VI**

<b>S NO</b>	<b>Reg No</b>	<b>Name of the tutor</b>
1	1920110001	AKSHAYA A
2	1920110014	HUZAIR AHMED R
3	1920110027	MOHANAPRIYA T
4	1920110033	POOJHA M
5	1920110052	SRISANJANA A

## **NPTEL FACULTY TOPPERS**

### **22-23 Odd**

<b>S. No.</b>	<b>Faculty Name</b>	<b>Course Name</b>	<b>Details</b>
1.	Dr. J. Akilandeswari	Big Data Computing	Topper in 5% Elite + Silver
2.	Dr. J. Jeba Emilyn	Introduction to Machine Learning	Topper in 5% Elite + Silver
3.	Dr. K. Thangaraj	Data Structures and Algorithms using Java	Topper in 5%
4.	Mr. R. Krishna Prakash	Cloud Computing	Topper in 5%
5.	Mr. C. Santhosh Kumar	Introduction to Internet of Things	Topper in 5%
6.	Ms. P. Kruthika	Introduction to Internet of Things	Topper in 5%
7.	Ms. J. Deepika	Ethics in Engineering Practice	Topper in 5%
8.	Mr.A.Naveenkumar	Cloud Computing	Topper in 5%

### **22-23 Even**

<b>S. No.</b>	<b>Faculty Name</b>	<b>Course Name</b>	<b>Details</b>
1.	Dr. J. Jeba Emilyn	Design Thinking – A Primer	Topper in 1%

# “NPTEL TOPPER 1% to 5%” by NPTEL, IIT Madras during July 2022 to December 2022

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

This certificate is awarded to  
**J AKILANDESWARI**  
for successfully completing the course

**Big Data Computing**  
with a consolidated score of **80** %

Online Assignments	23.46/25	Proctored Exam	56.25/75
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Total number of candidates certified in this course: **2264**

*Pathan*  
Prof. B. V. Ratish Kumar  
Chairman, Centre for Continuing Education  
IIT Kanpur

*Satyaki Roy*  
Prof. Satyaki Roy  
NPTEL Coordinator  
IIT Kanpur

Aug-Oct 2022  
(8 week course)

Indian Institute of Technology Kanpur

Roll No: NPTEL22CS56544440331      To validate the certificate      No. of credits recommended: 2 or 3

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

This certificate is awarded to  
**JEBA EMILYN J**  
for successfully completing the course

**Introduction to Machine Learning**  
with a consolidated score of **84** %

Online Assignments	24.17/25	Proctored Exam	60/75
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Total number of candidates certified in this course: **2034**

*Debjani Chakraborty*  
Prof. Debjani Chakraborty  
Coordinator, NPTEL  
IIT Kharagpur

Jul-Sep 2022  
(8 week course)

Indian Institute of Technology Kharagpur

Roll No: NPTEL22CS97513780150      To validate the certificate      No. of credits recommended: 2 or 3

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

This certificate is awarded to  
**NAVEENKUMAR A**  
for successfully completing the course

**Cloud Computing**  
with a consolidated score of **80** %

Online Assignments	25/25	Proctored Exam	55.1/75
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Total number of candidates certified in this course: **9640**

*Debjani Chakraborty*  
Prof. Debjani Chakraborty  
Coordinator, NPTEL  
IIT Kharagpur

Jul-Oct 2022  
(12 week course)

Indian Institute of Technology Kharagpur

Roll No: NPTEL22CS87554440041      To validate the certificate      No. of credits recommended: 3 or 4

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

This certificate is awarded to  
**KRISHNA PRAKASH RAJAGOPAL**  
for successfully completing the course

**Cloud Computing**  
with a consolidated score of **79** %

Online Assignments	25/25	Proctored Exam	53.64/75
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Total number of candidates certified in this course: **9640**

*Debjani Chakraborty*  
Prof. Debjani Chakraborty  
Coordinator, NPTEL  
IIT Kharagpur

Jul-Oct 2022  
(12 week course)

Indian Institute of Technology Kharagpur

Roll No: NPTEL22CS87564441325      To validate the certificate      No. of credits recommended: 3 or 4

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

This certificate is awarded to  
**KRUTHIKA P**  
for successfully completing the course

**Introduction to Internet of Things**  
with a consolidated score of **79** %

Online Assignments	23.1/25	Proctored Exam	56.25/75
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Total number of candidates certified in this course: **9793**

Jul-Oct 2022  
(12 week course)

Prof. Debjani Chakraborty  
Coordinator, NPTEL  
IIT Kharagpur

Indian Institute of Technology Kharagpur

swayam

Roll No: NPTEL22CS96S34441556 To validate the certificate No. of credits recommended: 3 or 4

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

This certificate is awarded to  
**SANTHOSH KUMAR C**  
for successfully completing the course

**Introduction to Internet of Things**  
with a consolidated score of **80** %

Online Assignments	24.13/25	Proctored Exam	56.25/75
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Total number of candidates certified in this course: **9793**

Jul-Oct 2022  
(12 week course)

Prof. Debjani Chakraborty  
Coordinator, NPTEL  
IIT Kharagpur

Indian Institute of Technology Kharagpur

swayam

Roll No: NPTEL22CS96S34440133 To validate the certificate No. of credits recommended: 3 or 4

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

This certificate is awarded to  
**J DEEPIKA**  
for successfully completing the course

**Ethics In Engineering Practice**  
with a consolidated score of **79** %

Online Assignments	21.67/25	Proctored Exam	57/75
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Total number of candidates certified in this course: **3261**

Aug-Oct 2022  
(8 week course)

Prof. Debjani Chakraborty  
Coordinator, NPTEL  
IIT Kharagpur

Indian Institute of Technology Kharagpur

swayam

Roll No: NPTEL22MG95S44442207 To validate the certificate No. of credits recommended: 2 or 3

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

This certificate is awarded to  
**THANGARAJ K**  
for successfully completing the course

**Data Structure and Algorithms using Java**  
with a consolidated score of **85** %

Online Assignments	24.28/25	Proctored Exam	61/75
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Total number of candidates certified in this course: **1806**

Jul-Oct 2022  
(12 week course)

Prof. Debjani Chakraborty  
Coordinator, NPTEL  
IIT Kharagpur

Indian Institute of Technology Kharagpur

swayam

Roll No: NPTEL22CS92S54440939 To validate the certificate No. of credits recommended: 3 or 4

**Dr.K.THANGARAJ-ASP/IT& MR. J.L. ALDO STALIN** has been recognized as “NPTEL DISCIPLINE STAR” by NPTEL, IIT Madras during July 2022 to December 2022.

Max Weeks: 60

ALDO STALIN J L

FACULTY

Max Weeks: 52

THANGARAJ K

FACULTY

**Dr.K.THANGARAJ-ASP/IT** has been recognized as “**NPTEL MOTIVATED LEARNER**” by NPTEL, IIT Madras during July 2022 to December 2022.

Courses taken: 10



**THANGARAJ K**  
FACULTY

Computer Science



**THANGARAJ K**  
FACULTY  
SONA COLLEGE OF TECHNOLOGY  
Programming

## **LIST OF ONLINE CERTIFICATE COURSE DURING THE YEAR 2022 (JULY 2022 TO DECEMBER 2022)**

<b>S. No</b>	<b>Name of the faculty</b>	<b>Courses</b>	<b>Name of the Courses</b>
1.	Dr. J. Akilandeswari	NPTEL	Big Data Computing
2.	Dr. V. Mohanraj	NPTEL	Python for Data Science
3.	Dr. J. Senthilkumar	NPTEL	Python for Data Science
4.	Dr. Y. Suresh	NPTEL	Python for Data Science
5.	Dr. P. Shanmugaraja	NPTEL	Operating System Fundamentals
6.	Dr. S. Vasanthi	NPTEL	Demystifying Networking
7.	Dr. P. Ilanchezhian	NPTEL	Cloud Computing Design Thinking - A Primer
8.	Dr. J. JebaEmilyn	NPTEL	Introduction to Machine Learning
9.	Dr. P. Iyyanar	NPTEL	Cloud computing
10.	Dr. K. Thangaraj	NPTEL	Demystifying Networking Data Structure And Algorithms Using Java Programming, Data Structure And Algorithms Using Python
11.	Mr. J.L. Aldostalin	NPTEL	Data Structure And Algorithms Using Java
12.	Ms. Lydia D. Isaac	NPTEL	Data Base Management System
13.	Mr. U.K. Balajisaravanan	NPTEL	Design Thinking - A Primer
14.	Mr. M. Murali	NPTEL	Design Thinking - A Primer
15.	Ms. D. Komalavalli	NPTEL	Demystifying Networking
16.	Ms. J. Deepika	NPTEL	Ethics In Engineering Practice
17.	Mr. K. Karthick	NPTEL	Design Thinking - A Primer
18.	Mr. N. Selvanathan	NPTEL	Design Thinking - A Primer
19.	Mr. S. Rajkumar	NPTEL	Design Thinking - A Primer
20.	Ms. I. Janani	NPTEL	Design Thinking - A Primer
21.	Ms. R. Sangeethapriya	NPTEL	Design Thinking - A Primer
22.	Mr. A. Naveen Kumar	NPTEL	Cloud computing
23.	Mr. R. Krishna Prakash	NPTEL	Cloud computing

24.	Mr. C. Santhosh Kumar	NPTEL	Introduction to Internet of Things
25.	Ms. P. Kruthika	NPTEL	Introduction to Internet of Things
26.	Mr. A. Velusamy	NPTEL	Design Thinking - A Primer

## NPTEL STUDENT TOPPERS

22-23 Odd

S. No.	Name Of The Student	Course Name	Certificate Type	Topper
1.	GURUSURYA M	Cloud Computing	Elite+Silver	Topper of 1% in this course
2.	MEGUL RAJ S		Elite+Silver	Topper of 1% in this course
3.	NEHA K		Elite+Silver	Topper of 2% in this course
4.	NIVAS R		Elite+Silver	Topper of 5% in this course
5.	PRAVIN P		Elite+Silver	Topper of 5% in this course
6.	PRIYADARSHINI N		Elite+Silver	Topper of 5% in this course
7.	SWETHA S S		Elite+Silver	Topper of 5% in this course
8.	MOHANAPRIYA T	Introduction to Internet of Things	Elite+Silver	Topper of 5% in this course
9.	NAVIN J		Elite+Silver	Topper of 5% in this course
10.	NIVETHA SRI S		Elite+Silver	Topper of 5% in this course
11.	SAISHREE R		Elite+Silver	Topper of 5% in this course
12.	SARENSANTH C		Elite+Silver	Topper of 2% in this course
13.	SARVESH KUMAR V		Elite+Silver	Topper of 1% in this course
14.	SOORIYA MS		Elite+Silver	Topper of 1% in this course
15.	SUBA S M		Elite+Silver	Topper of 5% in this course
16.	THAMARA KANNAN G		Elite+Silver	Topper of 2% in this course

17.	VIGNESH S		Elite+Silver	Topper of 5% in this course
18.	VIJAY PARANDAMAN B M		Elite+Silver	Topper of 5% in this course
19.	SHIVANI N	Design & Implementation of Human-Computer Interfaces	Elite+Silver	Topper of 2% in this course
20.	SOORIYA MS	Data Structure and Algorithms Using Java	Elite+Silver	Topper of 5% in this course
21.	VISHNU PRAJIT V	Demystifying Networking	Elite+Silver	Topper of 5% in this course

### 22-23 Even

S. No.	Name of the Student	Course Name	Certificate Type	Topper
1.	ARUNA M	Programming In Java	Elite+Silver	Topper of 5% in this course
2.	BRINDHA S	Programming In Java	Elite+Silver	Topper of 2% in this course
3.	SHIVANI N	Design Thinking - A Primer	Elite+gold	Topper of 2% in this course

## **LIST OF JOURNAL PUBLICATION DURING THE YEAR 2022 (JULY 2022 TO DECEMBER 2022)**

<b>S. No</b>	<b>Name of Author's</b>	<b>Name of the Journal</b>	<b>Title of the Paper</b>	<b>Month and year of Publication</b>
1.	Dr.JebaEmilyn	International Journal of Communication Systems	An enhanced Gray Wolf Optimization for cluster head selection in wireless sensor networks	July-2022
2.	Mr.N.Selvanathan	Lecture Notes in Networks and Systems	Lung Ultrasound COVID-19 Detection Using Deep Feature Recursive Neural Network	August 2022
3.	Mr. J. L. Aldo Stalin	Computational Intelligence and Neuroscience	Pigeon Inspired Optimization with Encryption Based Secure Medical Image Management System	August 2022
4.	Lydia D. Isaac	Wireless Communications and Mobile Computing	Energy Auditing and Broken Path Identification for Routing in Large-Scale Mobile Networks Using Machine Learning	August 2022
5.	Ms.R.Sangeethapriya Dr.J.Akilandeswari	Lecture Notes on Data Engineering and Communications Technologies	Detecting Cyberbullying with Text Classification Using 1DCNN and Glove Embeddings	August 2022
6.	Dr.J.Senthilkumar	Artificial Intelligence for Internet of Things: Design Principle, Modernization, and Techniques	Cyber security ecosystem and essentials for modern technology world	December 2022
7.	Dr.J.Akilandeswari	Scalable Computing	Cloud Broker Recommendation Framework To Provide Trustworthy	December 2022

		Practice and Experience	Cloud Services To The End User	
8.	Dr.K. Thangaraj	Journal of Mobile Multimedia	Modeling of Real Time Traffic Flow Monitoring System Using Deep Learning and Unmanned Aerial Vehicles	November 2022
9.	Dr.V.Mohanraj	Journal of Pharmaceutical Negative Results	Web Hazard Identification and Detection Using Deep Learning - A Comparative Study	November 2022

## **LIST OF CONFERENCE PUBLICATION DURING THE YEAR 2022 (JULY 2022 TO DECEMBER 2022)**

<b>S. No</b>	<b>Name Of Faculty</b>	<b>Name of the Conference</b>	<b>Title of the Paper</b>	<b>Month &amp; year</b>
1.	Dr.J. JebaEmilyn	International Conference on Communication and Electronics Systems	Real Time Air Pollution Prediction in Urban Cities using Deep Learning Algorithms and IoT	August 2022
2.	Dr.P. Ilanchezhian	International Virtual Conference on Power Engineering Computing and Control: Developments in Electric Vehicles and Energy Sector for Sustainable Future	Malware Identification in Advanced Interconnects on SOC	August 2022
3.	Dr. J.AkilandeswariMs.J.Deepika	International Conference on Communication and Electronics Systems	Vehicular Communication Systems in Internet of Vehicles based on Machine Learning with Enhanced Security	August 2022
4.	Mr. Karthick K	International Conference on Innovative Data Communication Technology and Application - Procedia Computer Science	A Subset Scaling Recursive Feature Collection Based DDoS Detection Using Behavioural Based Ideal Neural Network For Security In A Cloud Environment	November 2022
5.	Mr.S. Rajkumar	International Conference on Communication and Electronics Systems	Effective DDoS Attack Detection using Deep Generative Radial	August 2022

			Neural Network in the Cloud Environment	
6.	Mr. Karthick K	International Conference on Innovative Data Communication Technology and Application - Procedia Computer Science	A Subset Scaling Recursive Feature Collection Based DDoS Detection Using Behavioural Based Ideal Neural Network For Security In A Cloud Environment	November 2022
7.	Dr.K.Thangaraj Mr.Aldo Stalin	37 <sup>th</sup> Indian Engineering Congress	Collaborative Predictive Analytics Framework over AI-Enabled IoT Device	December 2022

## PATENTS FILED

S.No	Title of Innovation	Inventors	Date of filing
1.	A Framework for forecasting Stock Price	Dr.J.Akilandeswari Dr.P.Iyyanar Mr. J.Gokulraj Ms. J.Deepika Mr. A.Naveenkumar	16-06-2022
2.	Augmented reality display of report description along with OCR and Deep learning	Dr.P.Ilanchezhian Dr.P.Shanmugaraja Dr.S.Vasanthi Dr.K.Thangaraj Mr.J.L.Aldo Stalin	16-06-2022
3.	Enhancing TCP Throughput In Heterogeneous Network Efficiently Recovering Retransmission Loss	Ms. Sangeethapriya R Ms. Janani I Ms. Komalavalli D Ms. Lydia D Isaac	16-06-2022

## GUEST LECTURE

S.NO	Topic	Date	Organized by	Resource Person
1	Overview and Career scope in Analytics and Data Science	05-07-2022	Mr.David Samuel Azaria Mr.Selvanathan	Ms.Priyanka Agarwal, Senior product insights, Alteryx Bengaluru
2	Current State of software Development(Alumni webinar)	20-8-2022	Dr.J.Akilandeswari Dr.P.Iyyanar	Mr.Gopalakrishnansriraman, Lead Performance and CL, Philips India Ltd, Bangalore
3	Artificial Intelligence Healthcare and Social Applications (Webinar)	24-08-2022	Dr.K.Thangaraj	Dr.BaskaranSankaran Chief Scientist, Dattendriya Data Science Solutions, Chennai
4	Evolution of cloud service and growth(Alumni webinar)	27-08-2022	Dr.J.Akilandeswari	Mr.ArunMunuswamy, Sr.Program Manager, Infosys, Bangalore
5	AI for health care	17-09-2022	Dr.P.Iyyanar	Dr.Surendiran, Associate professor, Nit, Puducherry
6	5G n Telecommunication	08-10-2022	Dr.J.Akilandeswari	Mr.VonothGowthaman, Technical Leader, CISCO,Bangalore
7	Features of Machine Learning	23-11-2022	Dr.P.Iyyanar	Ms.Priyanka Agarwal, Senior Product analyst, Alteryx, Bangalore
8	Advanced Python Programming for Data Science	24-12-2022	Mrs.D.Komalavalli	Mr.J.Parthasarathy, Sr.Architect, CTS, Chennai
9	Embedded System and FPGA	26-12-2022	Dr.P.Illanchezhian Mrs.LydiaD.Issac Mr.David Samuel Azaria Mrs.R.Sangeethapriya	Mr.T.M.VinodhVenkatech, Project Lead, Valeo India pvt ltd, Chennai
10	Guest Lecture on Object Oriented Programming in C++	28-12-2022	Mrs.D.Komalavalli Mr.U.K.Balajisaravanan Mr.R.Krishna Prakash	Mr.PrithivirajMohanavel, Quality Engineer, L&T Infotech, Chennai
11	Recent Trends in Programmable Devices	28-12-2022	Dr.P.Illanchezhian Ms.R.Sangeethapriya	Ms.S.Preethika, Bosch Global Software Technologies Pvt ltd, Coimbatore

12	Modern Java in action(Alumni webinar)	28-01-2023	Dr.P.Iyyanar	Mr.P.Suresh, Software Engineer, TracebalAI, Bangaluru
13	Role of Data Science in AI &IoT	02-02-2023	Dr.P.Iyyanar	Dr.Sountharajan Programme Head, CSE Amrita VishwaVidhyapeetham, Chennai



**The Institution Of Engineers (India)**  
TAMILNADU STATE CENTRE  
CENTENARY CELEBRATIONS  
"100 HOURS IEI - TNSC TECHNO CARNIVAL"

BASED ON THE THEME  
Sustainable Developments of the Nation-The Role of Engineers  
Jointly with  
SALEM LOCAL CENTRE

Day : 2/August 24, 2022 @ 11.00 AM - 12.30 PM @ Sona College of Technology  
Title : ARTIFICIAL INTELLIGENCE - HEALTHCARE & SOCIAL APPLICATIONS

**Dr.J.Akilandeswari.,FIE.,**  
Dean - Academics, Professor & Head / IT & ADS,  
Sona College of Technology,  
Salem.  
Topic : AI in Social Applications

Meeting ID: 852 8679 9079  
Passcode: IEISLSC

**Dr.Baskaran Sankaran**  
Chief Scientist,  
Dattendriya Data Science Solutions India,  
Chennai  
Topic : AI Applications in Pharma

Organising Partners  
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Learning is a Collaboration!  
**Dattendriya**  
Data Science Solutions

Program Coordinators :  
Dr.A.Kumaravel, FIE, (96261 99599 & kumaravelitm@yahoocom)  
Dr.K.Thangaraj, MIE, (9994205317 & thangarakesava@gmail.com)

Invited by:  
Dr. T. M. Gunaraja, FIE  
Centenary President - IEI  
Organising Chairman, IEI - TNSC  
Er. R. Ramadoss, FIE  
Organising Secretary, IEI - TNSC

Er. S. Kannan, FIE  
Chairman, IEI - TNSC  
Er. K. N. Sivaraju, MIE  
Hon. Secretary, IEI - TNSC

Er. SR. Saravanan, FIE  
Chairman, IEI - SLC  
Er. N. Senthil Kumar, MIE  
Hon. Secretary, IEI - SLC

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**The Institution of Engineers (India)**  
**Salem Local Centre, Salem**  
In association with  
Department of Information Technology,  
**SONA COLLEGE OF TECHNOLOGY**  
Salem

A Technical webinar on  
**Intellectual Property Rights**  
Indian and International Law - An Overview

On 31.10.2022 at 11.00 AM through Zoom meet  
Meeting ID: 818 9778 3773 / Passcode: IEISLSC  
<https://us02web.zoom.us/j/81897783773?pwd=RHZUdVZlZTdxS2ZlYUJlVmdGFhdz09>

Guest Speaker  
**Dr. Bhupal Bhattacharya**  
Professor/ Department of Law,  
Raiganj University,  
Government of West Bengal

All are cordially invited

**Er. SR. SARAVANAN, FIE**  
Chairman  
IE (I)-Salem Local Centre, Salem

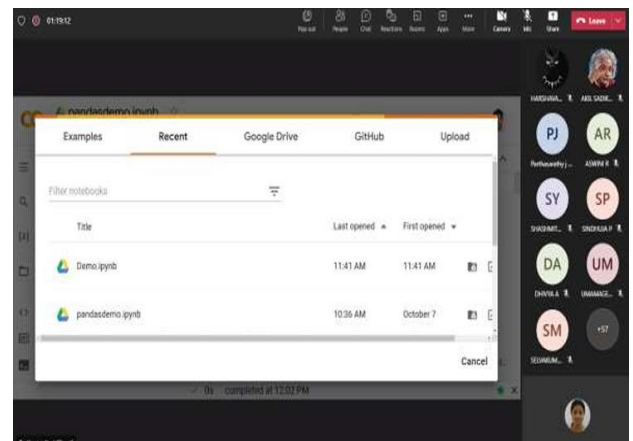
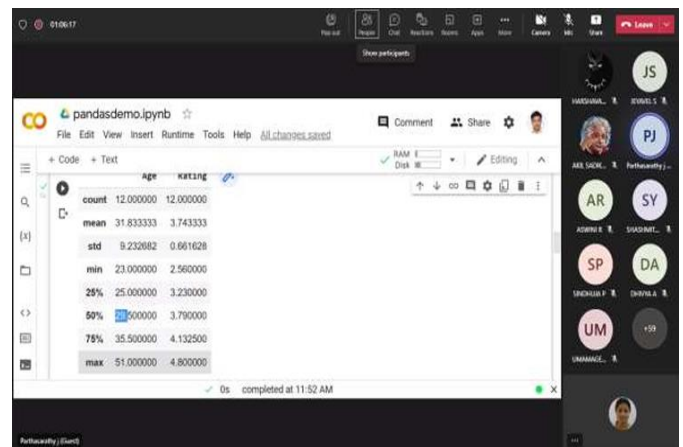
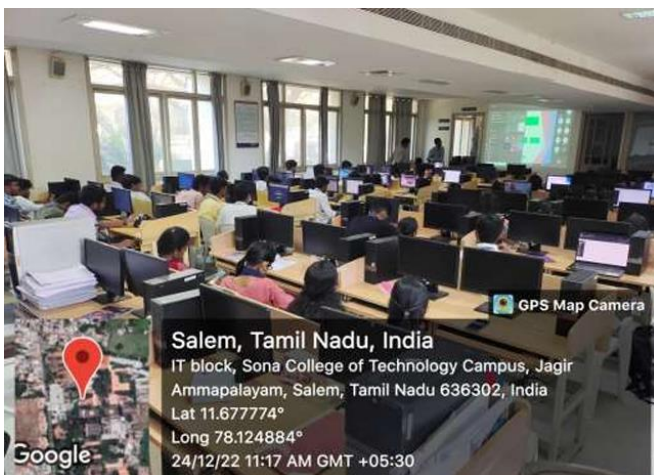
**Dr. S.R.R. SENTHIL KUMAR, FIE**  
Professor & Principal  
Sona College of Technology, Salem

**Er. N. SENTHIL KUMAR, MIE**  
Honorary Secretary  
IE (I)-Salem Local Centre, Salem

**Dr. J. AKILANDESWARI, FIE**  
Dean - Academics, Professor & HOD / IT  
Sona College of Technology, Salem

**Dr. R. MALATHY, FIE**  
Dean [R&D], Professor & HOD / CIVIL  
Sona College of Technology, Salem

**Dr. K. THANGARAJ, MIE**  
Associate Professor / IT  
Sona College of Technology, Salem





The slide titled "Microservices" shows a process flow with three circular icons representing different stages of development. The icons are blue, green, and red, each with a white center. Arrows connect them in a sequence. The background is dark purple with a white header.

The slide titled "Pros of Agile" lists "FIVE MAIN ADVANTAGES OF AGILE METHODOLOGY". The advantages are:
 

- 1. FASTER TO MARKET
- 2. GREATER CUSTOMER SATISFACTION
- 3. INCREASED TRANSPARENCY
- 4. BETTER COLLABORATION
- 5. FLEXIBILITY TO CHANGE

 The slide features a blue and red color scheme with a graphic of a hand holding a stack of papers.

The slide titled "Practices of Agile" shows a hierarchical diagram of agile practices. At the top is "Agile Manifesto Principles". Below it are four main categories: "Individuals and Interactions", "Working Software", "Collaborate with the Business", and "Responding to Change". Each category has several sub-points. A notification at the bottom left says "B.k. Moiyashagan has left the meeting".

The slide titled "Waterfall Model" shows a linear process flow with five circular icons: Requirement, Design, Implementation, Verification, and Maintenance. The icons are connected by a line that descends and then ascends, forming a waterfall shape. The background is dark purple with a white header.

The slide titled "Test driven development" shows a circular diagram with three main stages: "Write test cases", "Develop code", and "Run tests". The diagram is set against a blue background with a white header.

The slide titled "Cons of Waterfall" lists:
 

- More prone to errors
- Rigidity
- Client satisfaction

 The slide also includes a diagram of the Waterfall Model with stages: Requirements, Design, Development, Testing, Deployment, and Maintenance. The background is dark purple with a white header.

The slide titled "Advantages of TDD" lists:
 

- Modular code
- Efficient code maintenance
- Tight team collaboration

 The slide features a blue background with icons for a stack of papers, a gear, and a group of people. A code snippet is shown at the bottom: `think of: <?>`. The background is dark purple with a white header.

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Students' Chapter

**Department of INFORMATION TECHNOLOGY**

Organises  
**Guest Lecture on Industrial Applications of Python**  
Between 10:00 am to 01:00 pm

Date: 11.02.2023  
MBA Block Hall

Resource Person




**Dr. Baskaran Sankaran**  
Director,  
Maadhyamik Technologies Pvt. Ltd.

Co-ordinators  
Dr. K. Thangaraj | Mr. R. Krishna Prakash  
Mr. A. Velusamy | Ms. P. Kruthika

Organizing Secretary  
Dr. J. Akilandeswari  
Professor & Head/IT | Dean - Academics


Convener  
Dr.S.R.R.Senthilkumar  
Principal

[www.sonatech.ac.in](http://www.sonatech.ac.in)



GPS Map Camera

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M4HG+4C4, Sona College of Technology Campus, Jagir  
Ammapalayam, Salem, Tamil Nadu 636005, India  
Lat 11.677924°  
Long 78.126107°  
11/02/23 10:21 AM GMT +05:30




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Salem, Tamil Nadu, India  
M4HG+4C4, Sona College of Technology Campus, Jagir  
Ammapalayam, Salem, Tamil Nadu 636005, India  
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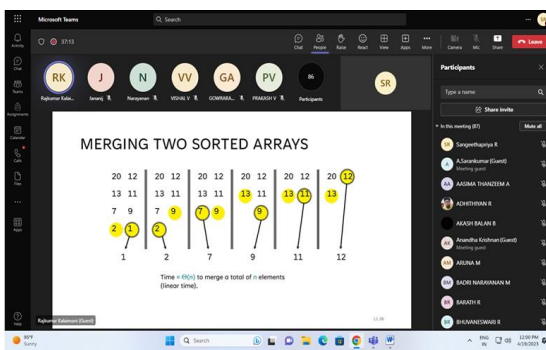
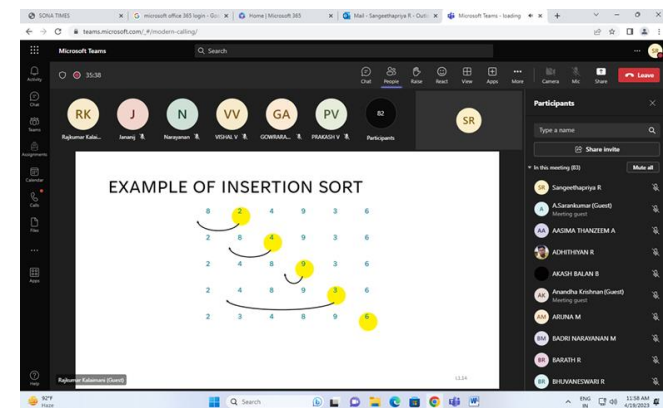
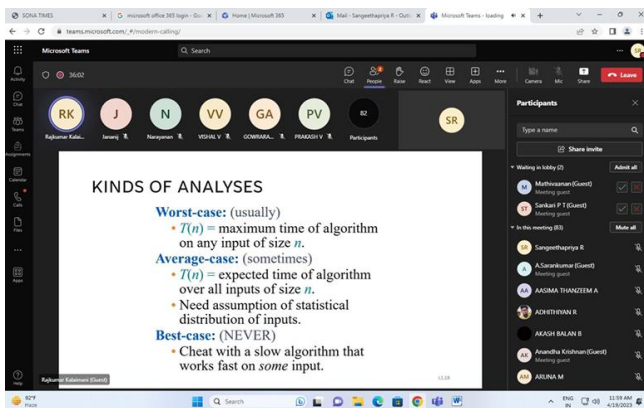
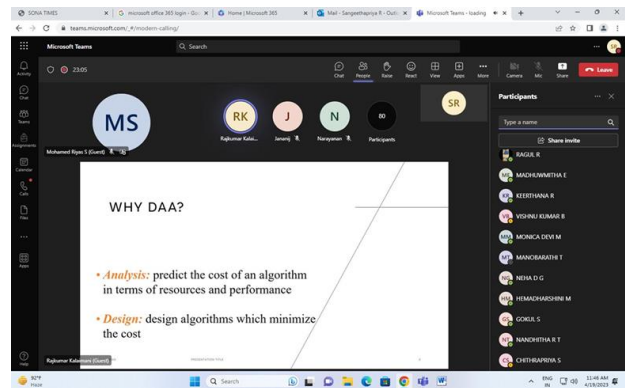
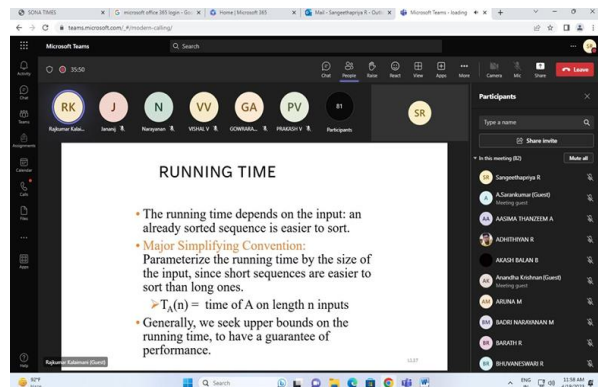
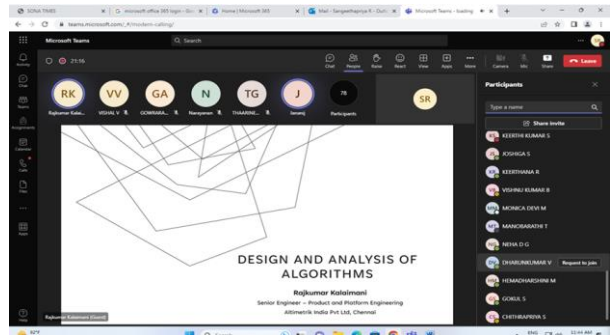
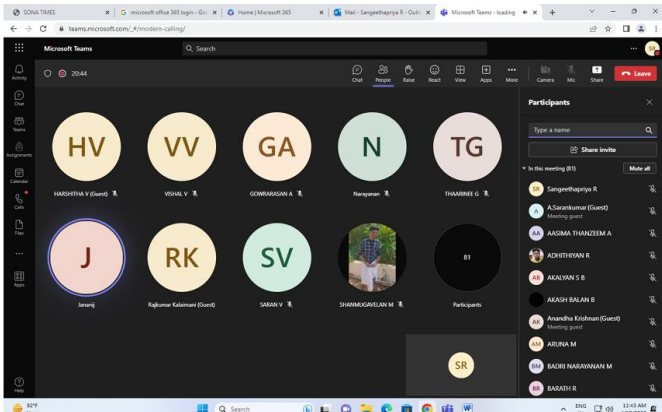
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Ammapalayam, Salem, Tamil Nadu 636005, India  
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Ammapalayam, Salem, Tamil Nadu 636005, India  
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Department of **Information Technology**

Workshop on  
**UTILIZATION ON APPLICATION LIFECYCLE MANAGEMENT TOOLS**

29.04.2023 | 9 am to 1 pm

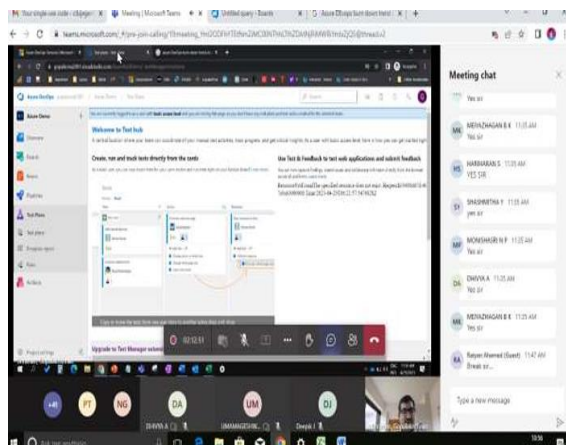
Convener  
**Dr. S.R.R. Senthil Kumar**  
 Principal

Organizing Secretary  
**Dr. J. Akilandeswari**  
 Professor & Head/IT  
 Dean - Academics

**Mr. Gopalakrishnan Sriraman**  
 Director - Capability and Performance  
 Philips India Private Ltd

Coordinator  
**J.Deepika**  
 AP/IT

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Registration and Reception



Welcome address by Er.SR.Saravanan, Chairman, IEI Salem Local Centre & IEI Council Member.



Address on the Theme by Dr. V.Mohanraj,



Special address by Dr.SRR.Senthil Kumar, Principal



Honoring the Chief Guest by Chairman, IEI SLC



Honoring the Host Institution Principal by Chairman, IEI SLC



Inaugural address by **Mr.D.Sai Satish**, Founder and CEO. Indian Servers. Viiavawada



A Portion of Audience



Hands on Sessions



Keynote address by Mr.D.Sai Satish, Founder and CEO, Indian Servers, Vijayawada.









**Vote of Thanks by Er.N.Senthil Kumar., FIE, Honorary Secretary, IEI Salem Local Centre**

**A portion of audience**

## NOMINATES FOR BEST OUTGOING STUDENTS IN VARIOUS CATEGORIES 2022-2023

<p><b>Category 1:</b> Best Outgoing Male</p>	<p><b>S. KANISH</b> 1919106040</p>	
<p><b>Category 1:</b> Best Outgoing Female</p>	<p><b>V. SNEHA</b> 1919106098</p>	
<p><b>Category 2:</b> Outstanding Overall Performance in Co- Curricular Activities</p>	<p><b>V.VISHNU PRAJIT</b> 1919106115</p>	
<p><b>Category 3:</b> Outstanding Overall Performance in Extra- Curricular Activities</p>	<p><b>P. NIDHARSHNAA</b> 1919106063</p>	
	<p><b>S. DEVI SHRUTHI</b> 1919106021</p>	

## SPEAKERS FORUM

V.Vishal of II year IT won the district level Speak for India 2022-2023 Contest on 09.01.2023 and has been selected for next State Level Contest.

### 1<sup>st</sup> district round of Speak For India edition begins on high-power note

TIMES NEWS NETWORK

**Chennai:** At Tamil Nadu edition's first district round of Speak for India 2022-23 – the coveted intercollegiate debate organised by The Times of India - students from different colleges in Salem engaged in an electrifying contest on Monday. Students from various academic backgrounds – MBA, law, engineering, biotechnology, mass communication, and arts and science - participated in the qualifying rounds with equal enthusiasm, knowledge and power.

The vast array of topics forming these debates covered crypto currencies, AI, value based teachings, reality shows, basic etiquette,



**BEST OF LUCK:** The eight students selected for the zonal stage of the event from the Salem district rounds

cloning, social media, influencers, and a lot more, bringing highly relevant and crucial matters of these times to light.

At the end of the contest, eight students were selected for the zonal stage from the Salem district rounds - Vishal V, Rithisri K, Gopalakrishnan P, Vasuda C, Harshini EK, Prem Kumar S, Harish Aravind S and Subasunagarathinabosu G.

“The event was an eye-opener for me, because it introduced me to the various perspectives on the important changes and developments happening around the world,” said Vishal V from Sona College of Technology.

The panel of judges was highly impressed with the quality of the debate and gave encouraging feedback to the students at the end of the contest.



The registrations for Speak for India are now open, and college students from across the state can participate in the competition. Participants at every level will get participation certificates and can choose their preferred language between English and Tamil. The winner gets a cash prize of ₹2.5 lakh and the runner-up gets ₹1.5 lakh. Each of the six finalists also stands to win ₹35,000 each. College students can participate by registering online at [www.speakforindia.in](http://www.speakforindia.in)

M S HARSHITAA of Third year of IT was shortlisted among top 10 out of 100 participants for regional pre-finals of ICT Academy of Youthtalk Tamil Nadu region 2022 on 27.9.2022



Final year IT student, Mr. Aswin, has won 2nd place in Elocution Competition in Saarang cultural festival conducted by IITM on 15.01.2023.



Akil Sadik – B.Tech ADS Third year – Best of Best Contest Prize Winner 2022-2023





## PLACEMENTS

Name of student	Program	Name of the employer	Pay package at appointment
ASHWIN KUMAR V	BTech-IT	Accenture,Bengaluru	450000
JANSI RANI t	BTech-IT	IBM,Bengaluru	1000000
SNEHA V	BTech-IT	Vibhathi labs,Chennai	450000
ARNISHA V	BTech-IT	Cisco,Bengaluru	1800000
ASWIN S	BTech-IT	Accenture,Bengaluru	800000
VISHNU PRAJIT V	BTech-IT	Cisco,Bengaluru	2000000
KANISH S	BTech-IT	Zentropy,Chennai	700000
RAGHUL DAVID M	BTech-IT	Ecolabs,Bengaluru	1000000
HARISH Y	BTech-IT	Consleague,Bengaluru	600000
PRITHIGA S K	BTech-IT	Consleague,Bengaluru	600000
SANJEEVAN K S	BTech-IT	Consleague,Bengaluru	600000
DHANUSH PRABHU S	BTech-IT	Infineon Technologies India Private Limited,Bengaluru	1500000
RAHURAMAN M B	BTech-IT	Cognizant GenC-DN,Chennai	450000
SATHISHKUMAR S	BTech-IT	Lumen Technologies India Pvt Ltd, Bengaluru	450000
SAKTHIPRIYA P	BTech-IT	Cisco,Bengaluru	1800000
HARIPRIYAA I	BTech-IT	SpringFive,Bengaluru	500000
YAKESH G	BTech-IT	SpringFive,Bengaluru	500000
SAKTHIPRIYA G	BTech-IT	LatentView Analytics,Chennai	667000
SANJAY S	BTech-IT	Infosys InfyTQ	420000
SRINITHI P	BTech-IT	Accenture,Bengaluru	420000
MARIO MACRINA A	BTech-IT	MindTree,Bengaluru	420000
DEEPIKA T	BTech-IT	Informatica,Bengaluru	1100000
PRAVEEN T	BTech-IT	Finzly ,Maharashtra	550000
YOKESHWARAN S	BTech-IT	VidhaiAI, Coimbatore	700000
HIRUTHIK K	BTech-IT	Ganit,Chennai	900000
SURYA S	BTech-IT	Ganit,Chennai	900000
DHARANI SHREE A S	BTech-IT	Cisco,Bengaluru	1800000
ABINATH D	BTech-IT	Accenture,Bengaluru	460000
ANITHA LAKSHMI S	BTech-IT	Accenture,Bengaluru	460000
ARUN KARTHICK P	BTech-IT	Accenture,Bengaluru	460000
ARUNKUMAR L	BTech-IT	Accenture,Bengaluru	460000
KISHORE K	BTech-IT	Accenture,Bengaluru	460000
MALAVIKA T	BTech-IT	Accenture,Bengaluru	460000

MATHANGI P R	BTech-IT	Accenture,Bengaluru	460000
SAI SATHIYA R	BTech-IT	Accenture,Bengaluru	460000
SAIPRASATH K B	BTech-IT	Accenture,Bengaluru	460000
SANDHIYA S	BTech-IT	Accenture,Bengaluru	460000
SAKTHI S	BTech-IT	Accenture,Bengaluru	460000
SARUTHI G	BTech-IT	Linde South Asia Services Pvt Ltd,Bengaluru	460000
RAKSHITHA VAIDHYA K	BTech-IT	Accenture,Bengaluru	460000
SHAMA ANJUM K	BTech-IT	Accenture,Bengaluru	460000
SRIDEVI R	BTech-IT	MindTree,Bengaluru	460000
VINISHA S	BTech-IT	Accenture,Bengaluru	460000
LOKESHWARAN B	BTech-IT	Hitachi Solutions India Pvt LtdChennai	550000
SHANMATHI B	BTech-IT	Hitachi Solutions India Pvt LtdChennai	3000000
SIVAGAYATHRI P	BTech-IT	TCS Digital,Chennai	760000
AMRITHA DEVI ANJANA K	BTech-IT	CTS GenC ,Bengaluru	400000
KARTHIKEYAN S	BTech-IT	CTS GenC ,Bengaluru	400000
OVIYA G	BTech-IT	CTS GenC ,Bengaluru	400000
SANJAY S T	BTech-IT	MindTree,Bengaluru	400000
SHAGIVARMAN R	BTech-IT	TCS,Chennai	400000
SHIVA DHARSHINI R	BTech-IT	CTS GenC	400000
SUSMA T	BTech-IT	CTS GenC	400000
THARANIES S	BTech-IT	CTS GenC Elevate	450000
OBU SHRUTHI A	BTech-IT	MindTree,Bengaluru	400000
SABITHA V	BTech-IT	MindTree,Bengaluru	400000
SINDHU R	BTech-IT	Kaar Technologies,Chennai	400000
SINDHU S	BTech-IT	MindTree,Bengaluru	400000
SOWNDARYA M S	BTech-IT	MindTree,Bengaluru	400000
VIJAYA LAKSHMI S	BTech-IT	MindTree,Bengaluru	400000
PRABU A	BTech-IT	MindTree,Bengaluru	400000
KANIMITHA S	BTech-IT	CTS GenC Next,Bengaluru	400000
MIDUNA A	BTech-IT	CTS GenC,Bengaluru	400000
MUKILARASAN N	BTech-IT	CTS GenC,Bengaluru	400000
NIDHARSHNA P	BTech-IT	Kaar Technologies,Chennai	400000
HARI ARAVIND S	BTech-IT	CTS GenC,Bengaluru	400000
PRASANNA M	BTech-IT	Strategy Fox,Bengaluru	400000
ABIRAMI P L	BTech-IT	WBC Softwares,Karaikudi	400000
PRIYADHARSHINI S	BTech-IT	TechMahindra,Hyderabad	400000
SYED ASIF Z	BTech-IT	CTS GenC,Bengaluru	400000

MOHAMMED AFNAAN T M	BTech-IT	CTS GenC,Bengaluru	400000
HARIHARAN A	BTech-IT	ThinkInnov,Chengalpattu	500000
INDHUMATHI P	BTech-IT	ThinkInnov,Chengalpattu	500000
ABIRAMI M	BTech-IT	Capgemini,Bengaluru	425000
SONIYA S	BTech-IT	Intellect, Chennai	425000
ARUNKUMAAR T S	BTech-IT	Smartshine Tech,Chennai	300000
KRITHIKA SREE T	BTech-IT	Smartshine Tech,Chennai	300000
KABHILAN A R	BTech-IT	Shiash	300000
HARINI T	BTech-IT	DataCorp Traffic,Bengaluru	300000
NARMADHA B	BTech-IT	Vee Technologies	300000
RANJANA J	BTech-IT	Vee Technologies	300000
VIJAY M	BTech-IT	Vee Technologies	300000
KAVYAA SHREE S	BTech-IT	Vee Technologies,Salem	300000
MOULIESWARAN V	BTech-IT	HCL,Chennai	425000
ABBASKASHIM S	BTech-IT	TEAL	600000
SOUJANYARASHMIE	BTech-IT	TVS-SACL	300000
LOGENDIRAN P	BTech-IT	Trinamix,Pune	425000
BHUVANESH D	BTech-IT	DataCorp Traffic,Bengaluru	435000
MARCUS DURAIRAJ	BTech-IT	HP,Bengaluru	850000
JAWAHAR R	BTech-IT	Bizanalytica Solution LLP	550000
DILOSHAA SRI R	BTech-IT	Microgenesis,Bengaluru	300000
MEKHA R	BTech-IT	Microgenesis,Bengaluru	300000
SANJAY S N	BTech-IT	Vee Technologies	240000
ABDUL AZIS A	BTech-IT	Smarbridge,Hyderabad	240000
NAVEEN S	BTech-IT	Smarbridge,Hyderabad	240000
DEVI SHRUTHI S	BTech-IT	Guvi,Chennai	450000

## ARTICLES

Our world is changing quickly, and technology is a big part of that change. We're entering a time where things we once only saw in movies or read about in books are becoming real. Technology is moving faster than ever before. We already have robots and computers that can think, and they're here to stay. These new technologies can help solve big problems, like curing diseases, but they also bring new challenges. These changes will affect how we live every day. However, not everyone has the same access to this technology, and that's something we need to think about. To keep up with these changes, learning is more important than ever. Schools need to teach kids not just how to use technology, but how to think creatively and solve problems. As adults, we also need to keep learning new things. The future is full of possibilities. Technology can help us build a better world. In conclusion, the future is bright, but it also comes with responsibility. We can use technology to create a world that is safe and exciting for everyone.

SOWMYA R

ADS Ilyr

### BEAUTY IS IN THE EYE OF THE BEHOLDER

We've all heard the saying, "Beauty is in the eye of the beholder." This timeless phrase suggests that beauty is subjective, and what one person finds beautiful, another might not. Today, I will explore this concept through five key subtopics: personal perception, cultural influences, the impact of media, inner versus outer beauty, and the evolving standards of beauty.

#### Personal Perception:

To begin, let's consider personal perception. Each of us views the world through a unique lens shaped by our experiences, beliefs, and emotions. This individuality means that our idea of beauty is deeply personal. What resonates with one person might not strike a chord with another. For example, a piece of art might evoke profound feelings in one person, while another might walk by without a second glance. Our perceptions are colored by our personalities, preferences, and even our mood at the moment.



#### Cultural Influences:

Moving on, we must acknowledge the powerful role of culture in shaping our understanding of beauty. Different cultures around the world have diverse beauty standards. What is considered beautiful in one society might be completely different in another. For example, the appreciation of certain body types, skin tones, or facial features varies greatly from culture to culture. These differences remind us that beauty is not a universal standard but rather a cultural construct that evolves over time.

#### The Impact of Media:

Next, let's discuss the impact of media on our perceptions of beauty. In today's world, media plays a significant role in defining and disseminating beauty standards. Magazines, television, and social media often promote a narrow and sometimes unrealistic standard of beauty. This can create pressure to conform to these ideals, leading to issues such as low self-esteem or body image concerns. However, it's also worth noting that media can challenge and expand these standards by showcasing diverse representations of beauty.

#### Inner Versus Outer Beauty:

Another critical aspect is the distinction between inner and outer beauty. Outer beauty is often the first thing we notice, but inner beauty, which includes qualities like kindness, intelligence, and compassion, is what truly defines a person. While society frequently places emphasis on physical appearance, true beauty is reflected in our actions, how we treat others, and the character we build. It's essential to recognize that inner beauty has a lasting impact, far beyond the fleeting nature of physical appearance.

#### The Evolving Standards of Beauty:

Finally, let's consider the evolving nature of beauty standards. Over time, what is considered beautiful has changed dramatically. From the voluptuous figures admired in the Renaissance to the slender models of the 21st century, beauty standards are constantly shifting. This evolution is driven by social, economic, and political factors, as well as by individual and collective experiences. As we move forward, there is a growing acceptance of diverse forms of beauty, a trend that encourages us to embrace our uniqueness rather than conform to a single ideal.

#### Conclusion:

In conclusion, "Beauty is in the eye of the beholder" reminds us that beauty is a subjective and multifaceted concept. Personal perception, cultural influences, media impact, the balance between inner and outer beauty, and the evolving

standards of beauty all play a role in shaping our understanding of what is beautiful. As we navigate these influences, let us celebrate the diversity of beauty in all its forms, recognizing that it is our differences that make the world a more vibrant and beautiful place.

YESWANTH N B

ADS Ilyr

### **WHAT DETERMINE A PERSON'S INTELLECT?**

A person's intellect are determined by analysing skill, problem solving, creative and reverse thinking and last memory power.

Analysing skill is very important. without analysing the question you can answer exactly to question.

Problem solving play vital role. the important thing in this is breakdown problem and solve it.

Thinking must be prudence and fast.

Last but not least is memory power.



DHARRSHENEE D

ADS Ilyr

## VISIONARIES IN ADVERSITY

Even when life traps us in challenging situations, the key is to redirect our focus from the obstacles to finding a solution. Let me share a story that illustrates this.

During World War II, in the midst of relentless conflict and uncertainty, a man named Donald Bailey designed something extraordinary—the Bailey Bridge. Amid the devastation, his invention was pivotal in transporting weapons, food, and other essentials across battlefields. Bailey’s creation wasn’t just a bridge; it was a lifeline, proving that even in the darkest times, innovation and courage can prevail.



Now, let's fast forward to a more recent event—the Wayanad incident in Kerala. When disaster struck, and lives hung in the balance, a team constructed a bridge within 36 hours, inspired by the very same Bailey Bridge design. This bridge, built between Mundakai and Chooramala, saved countless lives, showing that even in the face of adversity, quick thinking and action can make all the difference.

These stories remind us that life is full of challenges, but if we approach them with the right mindset and determination, we can overcome them. Visionaries in adversity aren’t just those who dream—they are those who take action, transforming problems into solutions and paving the way for a better future.

NIKITHA LAKSHMI J

ADS IIIyr

## HEALING

Healing is much more than “getting better” or “having our problems go away.” Healing is growth, development, and maturation. In a word, healing is change.

Providing a non-judgmental space for someone to express their feelings can be incredibly healing.

Whether it's practical assistance with daily tasks or emotional support, let them know you're there for them.

Help them prioritize activities that promote physical, emotional, and mental well-being.

Allow them to set their own pace for healing and respect their need for space or privacy.

Let them know that it's okay to feel the way they do.

Healing begins with acknowledgment. It requires us to face our pain and accept its presence in our lives.

Forgiveness is another vital aspect of healing. This includes forgiving ourselves for our mistakes and shortcomings, as well as forgiving those who have hurt us. Holding onto anger and resentment only deepens our wounds. Letting go of these negative emotions allows us to move forward with a lighter heart and a clearer mind.

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# EMBRACING THE FUTURE: THE POWER AND POTENTIAL OF ARTIFICIAL INTELLIGENCE

## 1. Understanding AI:

To begin, let's clarify what AI actually is. At its core, artificial intelligence refers to the capability of a machine to imitate intelligent human behavior. This can range from simple tasks, like recognizing speech or playing a game of chess, to more complex functions, such as understanding natural language or making data-driven decisions. The AI systems we interact with today are powered by advanced algorithms and vast amounts of data, allowing them to learn, adapt, and perform tasks with increasing sophistication.

## 2. AI's Impact on Our Lives:

The impact of AI on our lives is profound and multifaceted. In healthcare, AI-driven diagnostics are improving accuracy and speeding up the detection of diseases. In finance, algorithms are enhancing fraud detection and personalizing investment advice. AI is even revolutionizing transportation with self-driving cars, which promise to make our roads safer and more efficient.

Furthermore, AI is transforming the way we work. Automation is streamlining repetitive tasks, allowing employees to focus on more creative and strategic endeavors. This shift is not just about replacing jobs but about creating new opportunities and enhancing human capabilities.

## 3. AI in Education:

In the realm of education, AI is opening new doors for personalized learning. Adaptive learning platforms use AI to tailor educational experiences to individual students' needs, helping them learn at their own pace and in their own style. AI can also provide valuable insights to educators, identifying areas where students may need additional support and helping to improve teaching strategies.

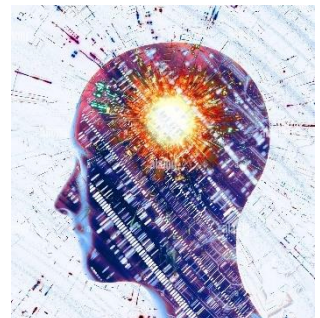
## 4. Ethical Considerations and Challenges:

As we embrace the power of AI, it is crucial to address the ethical considerations and challenges that accompany its rise. Issues such as data privacy, algorithmic bias, and the potential for job displacement are significant concerns. AI systems are only as good as the data they are trained on, and if this data is biased or incomplete, it can lead to unfair or discriminatory outcomes.

Moreover, the question of how to balance automation with employment is one we must carefully consider. While AI can enhance productivity, we must also ensure that workers are supported through reskilling and upskilling initiatives to adapt to the changing job market.

## 5. The Future of AI:

Looking forward, the future of AI holds immense promise. Innovations such as general artificial intelligence, which aims to create machines with human-like cognitive abilities, and advancements in machine learning and neural networks are set



to push the boundaries of what AI can achieve. However, this future must be navigated with responsibility and foresight.

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## **THE REVOLUTION OF MACHINE LEARNING: TRANSFORMING DATA INTO INSIGHTS**

### **1. Understanding Machine Learning:**

Machine learning, a subset of artificial intelligence, is about developing algorithms that enable computers to learn from and make predictions or decisions based on data. Unlike traditional programming, where a programmer writes explicit instructions, machine learning allows systems to learn patterns and improve their performance over time without being explicitly programmed.

### **2. The Power of Data:**

The foundation of machine learning is data. In our increasingly digital world, we are generating data at an unprecedented rate—through social media, transactions, sensors, and more. Machine learning harnesses this vast amount of data to uncover patterns, make predictions, and provide valuable insights. It's like turning raw information into actionable knowledge, driving decisions and innovations across various fields.

### **3. Real-World Applications:**

Machine learning is not just a theoretical concept but a practical tool that impacts our daily lives in numerous ways:

- **Healthcare:** In medicine, machine learning algorithms analyze medical records, predict disease outbreaks, and assist in diagnosing conditions from medical images. These advancements improve patient care and support doctors in making more accurate decisions.
- **Finance:** The finance industry uses machine learning for fraud detection, algorithmic trading, and personalizing financial advice. Algorithms can identify suspicious activities and trends that may indicate fraudulent behavior, safeguarding financial transactions.
- **Retail:** Retailers leverage machine learning to enhance customer experiences through personalized recommendations, inventory management, and dynamic pricing strategies. By analyzing purchase history and browsing behavior, companies can offer products tailored to individual preferences.
- **Transportation:** Autonomous vehicles and traffic management systems rely on machine learning to optimize routes, improve safety, and enhance

the efficiency of transportation networks. Self-driving cars use machine learning to interpret sensor data and navigate complex environments.

#### **4. Challenges and Considerations:**

Despite its tremendous potential, machine learning comes with its own set of challenges:

- **Data Quality and Bias:** Machine learning models are only as good as the data they are trained on. If the data is biased or incomplete, it can lead to skewed results and unintended consequences. Ensuring data quality and addressing biases are critical for fair and accurate outcomes.
- **Privacy and Security:** The use of personal data in machine learning raises concerns about privacy and security. Safeguarding sensitive information and implementing robust data protection measures are essential to maintaining trust and ensuring ethical use.
- **Interpretability:** Some machine learning models, particularly deep learning algorithms, can be complex and opaque. Understanding how these models make decisions is crucial for accountability and transparency, especially in high-stakes applications like healthcare and finance.

#### **5. The Future of Machine Learning:**

Looking ahead, the future of machine learning is both exciting and promising. Advances in areas such as reinforcement learning, explainable AI, and integration with other technologies like quantum computing will continue to push the boundaries of what is possible. As machine learning evolves, it will drive innovations that enhance our lives and address some of the world's most pressing challenges.

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# PIONEERING THE FUTURE: THE VISION AND IMPACT OF ELON MUSK

## 1. A Visionary Entrepreneur:

Elon Musk's journey began with his ventures in the tech industry. Co-founding Zip2 and X.com, which later became PayPal, Musk demonstrated early on his ability to recognize opportunities and drive change. His ventures were not merely businesses; they were platforms for innovation that set new standards for technology and finance.

## 2. Revolutionizing Space Exploration:

One of Musk's most audacious goals is to make space travel accessible and sustainable. As the founder of SpaceX, he has spearheaded remarkable achievements in space exploration. SpaceX's Falcon rockets and Dragon spacecraft have revolutionized the industry with their reusability, significantly reducing the cost of space travel. The successful landing of the Falcon 9 rocket, a feat once considered impossible, marked a new era in space exploration.

But Musk's vision goes beyond Earth's orbit. With the goal of colonizing Mars, SpaceX is developing the Starship spacecraft, designed to carry humans to other planets. This ambitious goal reflects Musk's belief in ensuring the long-term survival of humanity and expanding our reach beyond our home planet.

## 3. Advancing Sustainable Energy:

In addition to space exploration, Musk is deeply committed to addressing climate change and promoting sustainable energy. As the CEO of Tesla, he has driven the development of electric vehicles that are not only innovative but also set a new benchmark for environmental responsibility in the automotive industry.

## 4. Innovations in Transportation:

Elon Musk's vision for the future extends to transportation on Earth as well. The Hyperloop, a high-speed transportation system, aims to drastically reduce travel time between cities. Although still in development, the Hyperloop represents Musk's commitment to pushing the boundaries of what is possible in transportation.

Additionally, the Boring Company, another of Musk's ventures, focuses on alleviating urban traffic congestion through underground tunnel systems. These innovative projects reflect his broader goal of improving infrastructure and enhancing the efficiency of our daily lives.

## 5. Challenges and Criticisms:

Despite his many accomplishments, Musk's journey has not been without challenges and criticisms. His ambitious goals and unconventional approaches often attract scrutiny. Balancing innovation with practicality and managing the complexities of large-scale projects are ongoing challenges. However, Musk's



resilience and determination to tackle these challenges head-on are a testament to his commitment to shaping a better future.

**6. The Legacy of Innovation:**

As we reflect on Elon Musk's contributions, it is clear that his impact extends far beyond individual successes. His work embodies the spirit of innovation and the pursuit of groundbreaking solutions to some of the world's most pressing problems.

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