RAMCO INSTITUTE OF TECHNOLOGY

Approved by AICTE, New Delhi & Affiliated to Anna University
NAAC Accredited with 'A+' Grade & An ISO 9001: 2015 Certified Institution
Rajapalayam - 626 117, Tamil Nadu.

DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

MONTHLY NEWS LETTER

NOV' 25

EDITORIAL COMMITTEE MEMBERS

Dr. M. Kaliappan, Professor & Head

Dr. E. Mariappan, Associate Professor

K. Nithya Shree, IV - B

I. Delight Cherubino, III - A

VISION

- TO IMPART INTERNATIONAL QUALITY EDUCATION, PROMOTE COLLABORATIVE RESEARCH AND GRADUATE INDUSTRY-READY ENGINEERS IN THE DOMAIN OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE TO SERVE THE SOCIETY.

MISSION

- EXCEL IN TEACHING-LEARNING PROCESS AND COLLABORATIVE RESEARCH BY THE USE OF MODERN INFRASTRUCTURE AND INNOVATIVE COMPONENTS.
- ESTABLISH AN ARTIFICIAL INTELLIGENCE AND DATA SCIENCE BASED CENTRE OF EXCELLENCE TO PREPARE PROFESSIONAL TECHNOCRATS FOR SOLVING INTERDISCIPLINARY INDUSTRY PROBLEMS IN VARIOUS APPLICATIONS
- MOTIVATE STUDENTS TO EMERGE AS ENTREPRENEURS WITH LEADERSHIP QUALITIES IN A SOCIETAL CENTRIC PROGRAMME TO FULFIL INDUSTRY AND COMMUNITY NEEDS WITH ETHICAL STANDARDS.

PROGRAM EDUCATIONAL OBJECTIVES (PEO'S)

AFTER SUCCESSFUL COMPLETION OF THE DEGREE, THE STUDENTS WILL BE ABLE TO

- PEO 1. APPLY ARTIFICIAL INTELLIGENCE AND DATA SCIENCE TECHNIQUES WITH INDUSTRIAL STANDARDS AND PIONEERING RESEARCH TO SOLVE SOCIAL AND ENVIRONMENT-RELATED PROBLEMS FOR MAKING A SUSTAINABLE ECOSYSTEMS.
- PEO 2. EXCEL WITH PROFESSIONAL SKILLS, FUNDAMENTAL KNOWLEDGE, AND ADVANCED FUTURISTIC TECHNOLOGIES TO BECOME DATA SCIENTISTS, DATA ANALYST MANAGERS, DATA SCIENCE LEADERS AI RESEARCH SCIENTISTS, OR ENTREPRENEURS.

PROGRAM SPECIFIC OUTCOMES (PSO'S)

AFTER SUCCESSFUL COMPLETION OF THE DEGREE, THE STUDENTS WILL BE ABLE TO:

- PSO 1: TO APPLY ANALYTIC TECHNOLOGIES TO ARRIVE AT ACTIONABLE FORESIGHT, INSIGHT, HINDSIGHT FROM DATA FOR SOLVING BUSINESS AND ENGINEERING PROBLEMS
- PSO 2: TO CREATE, AND APPLY THE TECHNIQUES OF AI AND DATA SCIENCE TO FORECAST FUTURE EVENTS IN THE DOMAIN OF HEALTHCARE, EDUCATION, AND AGRICULTURE, MANUFACTURING, AUTOMATION, ROBOTICS, TRANSPORT, ETC
- PSO 3: TO ENRICH THE CRITICAL THINKING SKILLS IN EMERGING TECHNOLOGIES SUCH AS HYBRID MOBILE APPLICATION DEVELOPMENT, CLOUD TECHNOLOGY STACK, AND CYBER-PHYSICAL SYSTEMS WITH MATHEMATICAL AID TO FORESEE THE RESEARCH FINDINGS AND PROVIDE THE SOLUTIONS.

FACULTY PARTICIPATION

>> DR. M. KALIAPPAN, PROFESSOR AND HEAD/ AI & DS, HAS SUCCESSFULLY PARTICIPATED & COMPLETED AICTE TRAINING AND LEARNING (ATAL) ACADEMY FACULTY DEVELOPMENT PROGRAM ON "NEXT GEN AI AND LLMS: TRANSFORMING PEDAGOGY AND RESEARCH" AT NATIONAL INSTITUTE OF TECHNICAL TEACHERS' TRAINING AND RESEARCH FROM 10TH TO 15TH NOV., 2025.

ATAL/2025/1761543481

Skill India

ATAL

AICTE

NITTTR

ALL INDIA COUNCIL FOR TECHNICAL EDUCATION

Nelson Mandela Marg, Vasant Kunj, New Delhi -110070

AICTE Training and Learning (ATAL) Academy

Certificate

It is certified that ***Dr. Kaliappan, Professor*** *of* ***RAMCO INSTITUTE OF TECHNOLOGY*** *has successfully participated & completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on* ***Next Gen AI and LLMs: Transforming Pedagogy and Research*** *at* ***NATIONAL INSTITUTE OF TECHNICAL TEACHERS' TRAINING AND RESEARCH*** *from* ***10/11/2025*** *to* ***15/11/2025.***

GANAPATHY S
Associate Professor Level (AICTE Institute), Coordinator
NATIONAL INSTITUTE OF TECHNICAL TEACHERS' TRAINING AND RESEARCH

Dr. Sunil Luthra
Director & Bureau Head
Training and Learning Bureau, AICTE

>> DR. E.MARIAPPAN, ASSO.PROF/ AI & DS, HAS SUCCESSFULLY PARTICIPATED & COMPLETED AICTE TRAINING AND LEARNING (ATAL) ACADEMY FACULTY DEVELOPMENT PROGRAM ON "NEXT GEN AI AND LLMS: TRANSFORMING PEDAGOGY AND RESEARCH" AT NATIONAL INSTITUTE OF TECHNICAL TEACHERS' TRAINING AND RESEARCH FROM 10TH TO 15TH NOV., 2025.

ATAL/2025/1761545677

Skill India

ATAL

AICTE

NITTTR

ALL INDIA COUNCIL FOR TECHNICAL EDUCATION

Nelson Mandela Marg, Vasant Kunj, New Delhi -110070

AICTE Training and Learning (ATAL) Academy

Certificate

It is certified that ***Dr. Mariappan E, Associate Professor*** *of* ***Ramco Institute of Technology*** *has successfully participated & completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on* ***Next Gen AI and LLMs: Transforming Pedagogy and Research*** *at* ***NATIONAL INSTITUTE OF TECHNICAL TEACHERS' TRAINING AND RESEARCH*** *from* ***10/11/2025*** *to* ***15/11/2025.***

GANAPATHY S
Associate Professor Level (AICTE Institute), Coordinator
NATIONAL INSTITUTE OF TECHNICAL TEACHERS' TRAINING AND RESEARCH

Dr. Sunil Luthra
Director & Bureau Head
Training and Learning Bureau, AICTE

>> MRS. R. ANGEL HEPZIBAH, AP / AI & DS, HAS SUCCESSFULLY PARTICIPATED & COMPLETED AICTE TRAINING AND LEARNING (ATAL) ACADEMY FACULTY DEVELOPMENT PROGRAM ON "NEXT GEN AI AND LLMS: TRANSFORMING PEDAGOGY AND RESEARCH" AT NATIONAL INSTITUTE OF TECHNICAL TEACHERS' TRAINING AND RESEARCH FROM 10TH TO 15TH NOV., 2025.

ATAL/2025/1761384911

Skill India

ATAL

ALL INDIA COUNCIL FOR TECHNICAL EDUCATION

Nelson Mandela Marg, Vasant Kunj, New Delhi -110070

AICTE Training and Learning (ATAL) Academy

Certificate

It is certified that ***Mrs. Angel Hepzibah, Assistant Professor*** *of* ***Ramco Institute of Technology*** *has successfully participated & completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on* ***Next Gen AI and LLMs: Transforming Pedagogy and Research*** *at* ***NATIONAL INSTITUTE OF TECHNICAL TEACHERS' TRAINING AND RESEARCH*** *from* ***10/11/2025*** *to* ***15/11/2025.***

GANAPATHY S
Associate Professor Level (AICTE Institute), Coordinator
NATIONAL INSTITUTE OF TECHNICAL TEACHERS' TRAINING AND RESEARCH

Dr. Sunil Luthra
Director & Bureau Head
Training and Learning Bureau, AICTE

>> MRS. B. REVATHI, AP /AI&DS, AWARDED 12 WEEKS ONLINE CERTIFICATION COURSE ON "OPERATING SYSTEM FUNDAMENTALS" OFFERED BY SWAYAM-NPTEL, ON JUL-OCT 2025.

Elite

NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)

Skill India

This certificate is awarded to

REVATHI B

for successfully completing the course

Operating System Fundamentals

with a consolidated score of 71 %

Online Assignments	24.69/25	Proctored Exam	46.5/75

Total number of candidates certified in this course: 5479

TOP TOPPER 5%

Jul-Oct 2025

(12 week course)

Prof. Haimanti Banerji
Coordinator, NPTEL
IIT Kharagpur

Indian Institute of Technology Kharagpur

swayam

Roll No: NPTEL25CS141S1169000004 To verify the certificate No. of credits recommended: 3 or 4

>> MR. M. RAMNATH, AP / AI & DS, HAS SUCCESSFULLY PARTICIPATED IN THE NATIONAL CONFERENCE ON "UNNAT BHARAT ABHIYAN: ADVANCING COMMUNITY ENGAGEMENT IN HIGHER EDUCATION TOWARDS SDGS 2030 AND VIKSIT BHARAT @ 2047" HELD ON 11.11.2025 AT THE GANDHIGRAM RURAL INSTITUTE (DEEMED TO BE UNIVERSITY), GANDHIGRAM, DINDIGUL DISTRICT, TAMILNADU.

Unnat Bharat Abhiyan - Foundation Day Celebrations

National Conference on "Unnat Bharat Abhiyan: Advancing Community Engagement in Higher Education towards SDGs 2030 and Viksit Bharat @ 2047"

Organized by

Regional Coordinating Institute, Unnat Bharat Abhiyan

The Gandhigram Rural Institute, (DTBU) Gandhigram

Certificate of Participation

This is to certify that **Mr. RAMNATH M**, **Assistant Professor, ARTIFICIAL INTELLIGENCE AND DATA SCIENCE, RAMCO INSTITUTE OF TECHNOLOGY**, participated in the National Conference on **"Unnat Bharat Abhiyan:Advancing Community Engagement in Higher Education towards SDGs 2030 and Viksit Bharat @ 2047"** held on **11.11.2025** *(Online mode)* at The Gandhigram Rural Institute (Deemed to be University), Gandhigram, Dindigul District, Tamil Nadu.

Dr.S.Kavitha Maithily
Coordinator, UBA
GRI (DTBU), Gandhigram

Dr.K.Ravichandran
Regional Coordinator, UBA
GRI (DTBU), Gandhigram

>> MR. M. RAMNATH, AP / AI & DS, PARTICIPATED & COMPLETED AICTE TRAINING AND LEARNING (ATAL) ACADEMY FACULTY DEVELOPMENT PROGRAM ON "NEXT GEN AI AND LLMS: TRANSFORMING PEDAGOGY AND RESEARCH" AT NATIONAL INSTITUTE OF TECHNICAL TEACHERS' TRAINING AND RESEARCH FROM 10TH TO 15TH NOV., 2025.

ATAL/2025/1761387065

Skill India

ATAL

ALL INDIA COUNCIL FOR TECHNICAL EDUCATION

Nelson Mandela Marg, Vasant Kunj, New Delhi -110070

AICTE Training and Learning (ATAL) Academy

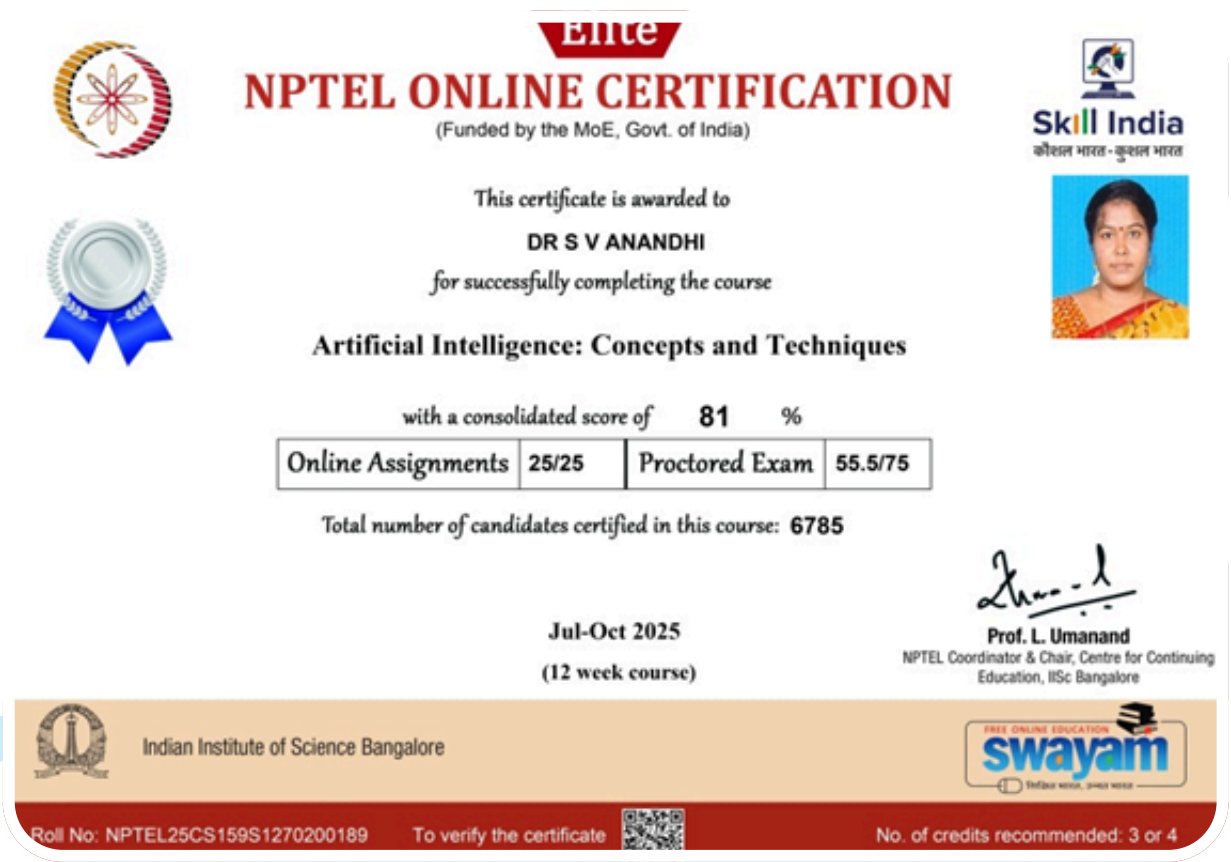
Certificate

It is certified that ***Mr. RAMNATH M, Assistant Professor*** *of* ***Ramco Institute of Technology*** *has successfully participated & completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on* ***Next Gen AI and LLMs: Transforming Pedagogy and Research*** *at* ***NATIONAL INSTITUTE OF TECHNICAL TEACHERS' TRAINING AND RESEARCH*** *from* ***10/11/2025*** *to* ***15/11/2025****.*

GANAPATHY S
Associate Professor Level (AICTE Institute), Coordinator
NATIONAL INSTITUTE OF TECHNICAL TEACHERS' TRAINING AND RESEARCH

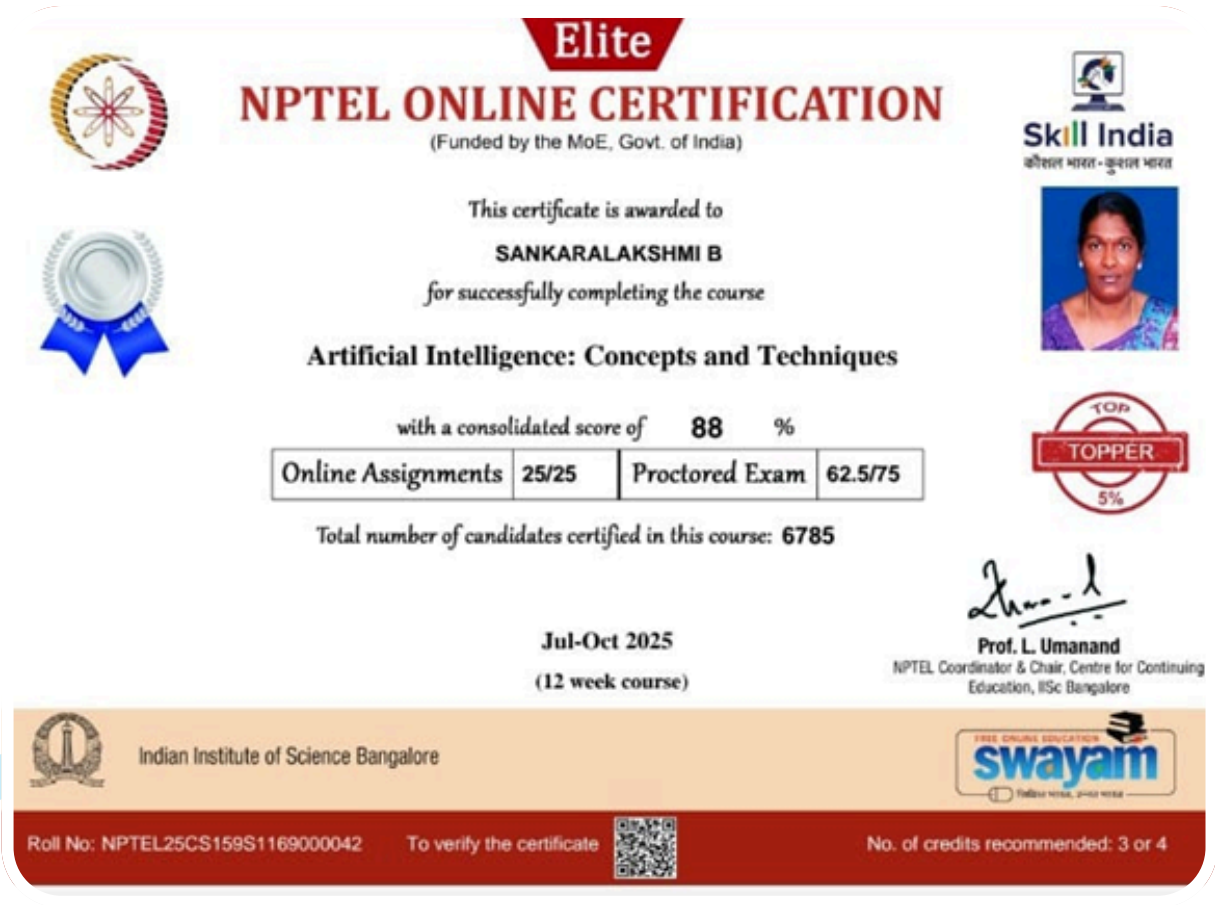
Dr. Sunil Luthra
Director & Bureau Head
Training and Learning Bureau, AICTE

>> DR. S. V. ANANDHI, ASSO.PROF/AI&DS, AWARDED 12 WEEKS ONLINE CERTIFICATION COURSE ON "ARTIFICIAL INTELLIGENCE: CONCEPTS AND TECHNIQUES" OFFERED BY SWAYAM-NPTEL, ON JUL-OCT 2025.



>> DR. S. SELVA BIRUNDA, ASSO.PROF/AI&DS, AWARDED 8 WEEKS ONLINE CERTIFICATION COURSE ON "BIG DATA COMPUTING" OFFERED BY SWAYAM-NPTEL, ON AUG-OCT 2025.

>> MRS. B. SANKARALAKSHMI, AP/AI&DS, AWARDED 12 WEEKS ONLINE CERTIFICATION COURSE ON “ARTIFICIAL INTELLIGENCE: CONCEPTS AND TECHNIQUES” OFFERED BY SWAYAM-NPTEL, ON JUL-OCT 2025.


Elite

NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)

Skill India
कौशल भारत-कुशल भारत

This certificate is awarded to

SANKARALAKSHMI B

for successfully completing the course

Artificial Intelligence: Concepts and Techniques

with a consolidated score of 88 %

Online Assignments	25/25	Proctored Exam	62.5/75

Total number of candidates certified in this course: 6785

TOP TOPPER 5%

Jul-Oct 2025

(12 week course)

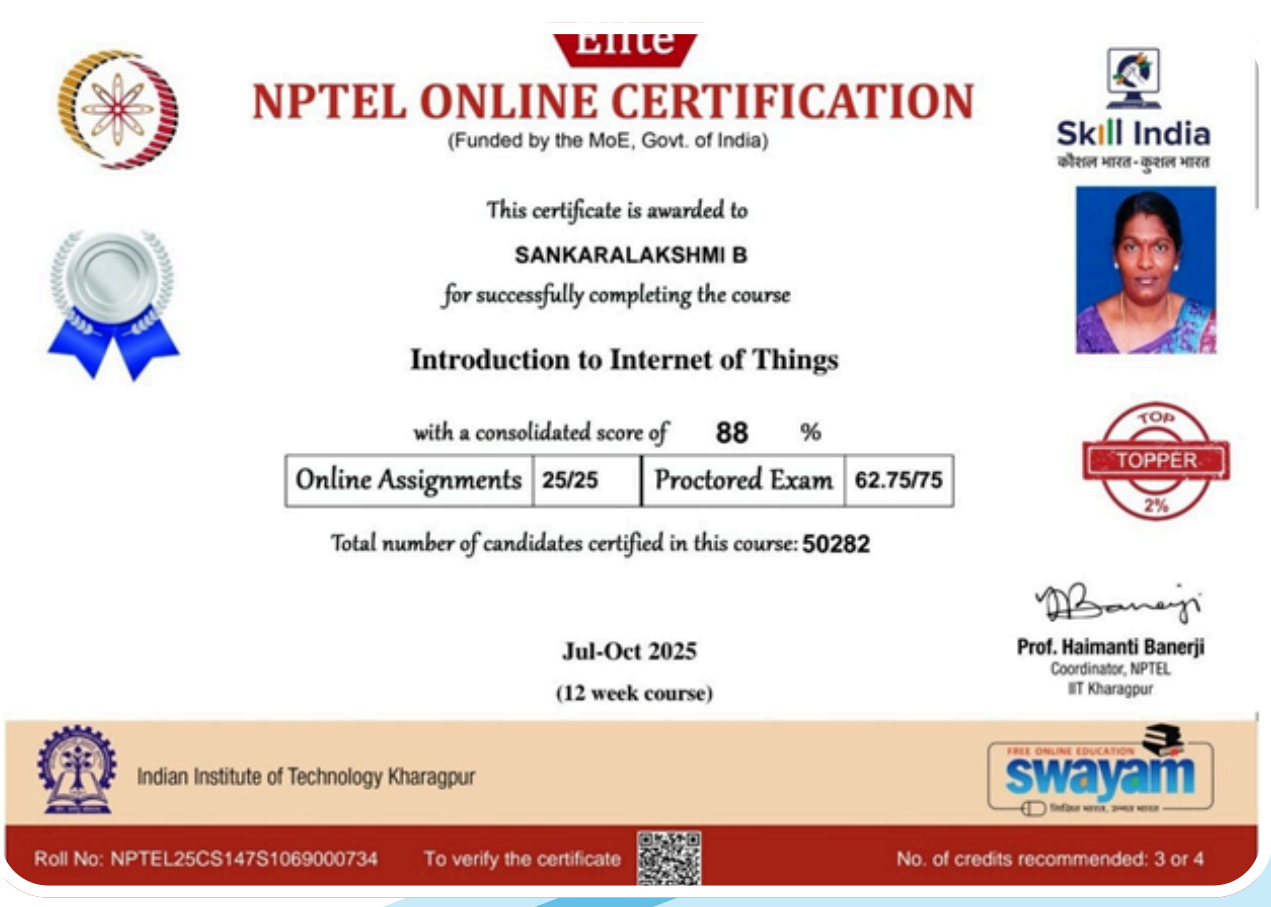
Prof. L. Umanand
NPTEL Coordinator & Chair, Centre for Continuing Education, IISc Bangalore

Indian Institute of Science Bangalore

swayam

Roll No: NPTEL25CS159S1169000042 To verify the certificate No. of credits recommended: 3 or 4

>> MRS. B. SANKARALAKSHMI, AP/AI&DS, AWARDED 12 WEEKS ONLINE CERTIFICATION COURSE ON “INTRODUCTION TO INTERNET OF THINGS” OFFERED BY SWAYAM-NPTEL, ON JUL-OCT 2025.


Elite

NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)

Skill India
कौशल भारत-कुशल भारत

This certificate is awarded to

SANKARALAKSHMI B

for successfully completing the course

Introduction to Internet of Things

with a consolidated score of 88 %

Online Assignments	25/25	Proctored Exam	62.75/75

Total number of candidates certified in this course: 50282

TOP TOPPER 2%

Jul-Oct 2025

(12 week course)

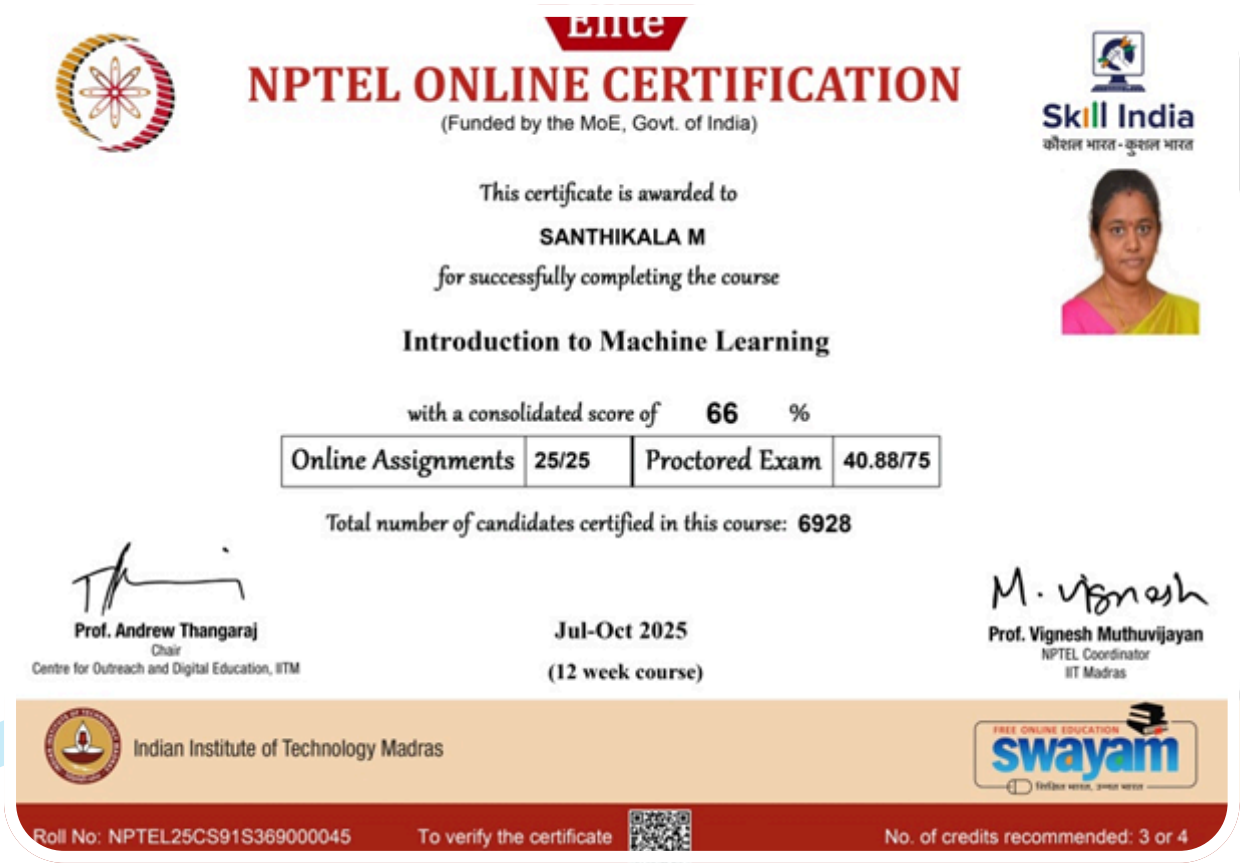
Prof. Haimanti Banerji
Coordinator, NPTEL
IIT Kharagpur

Indian Institute of Technology Kharagpur

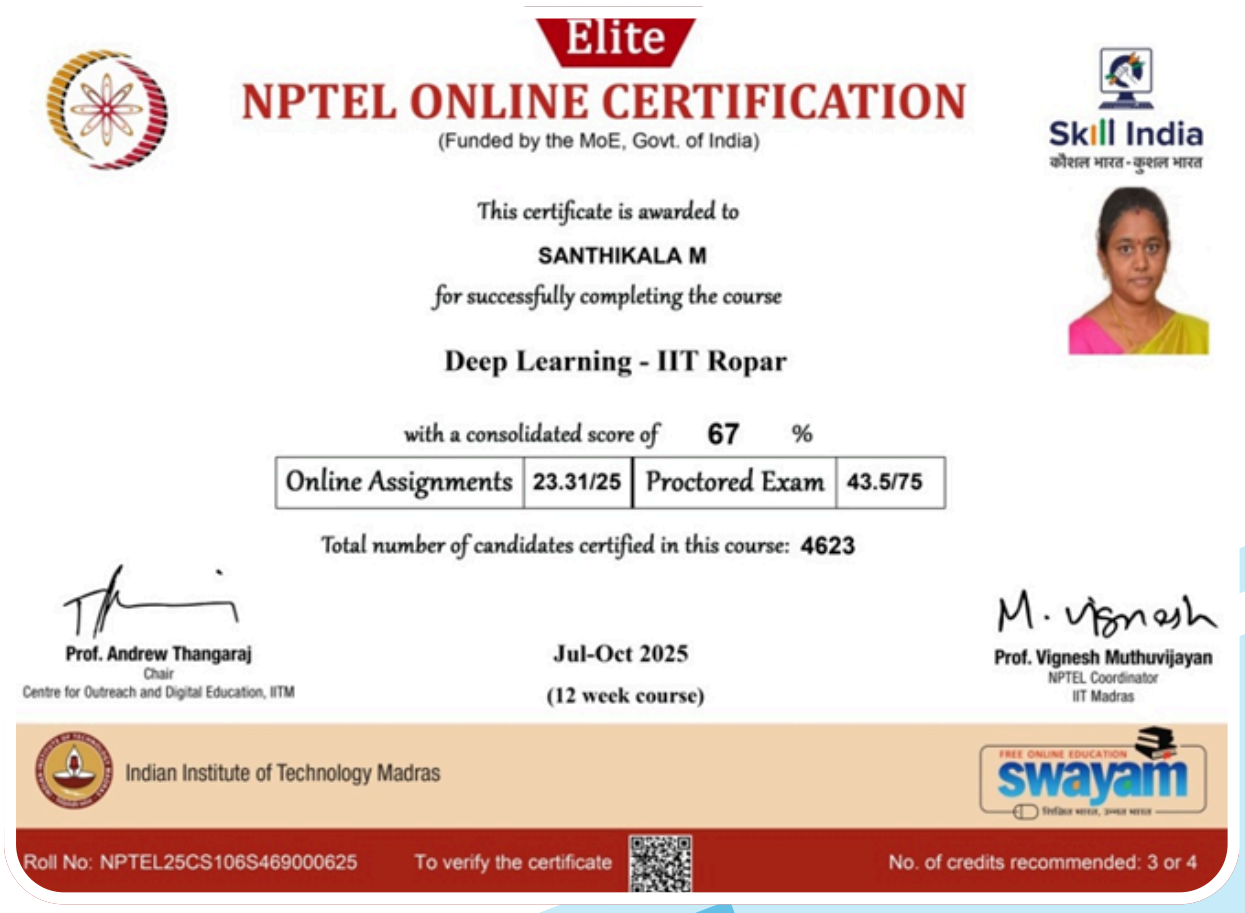
swayam

Roll No: NPTEL25CS147S1069000734 To verify the certificate No. of credits recommended: 3 or 4

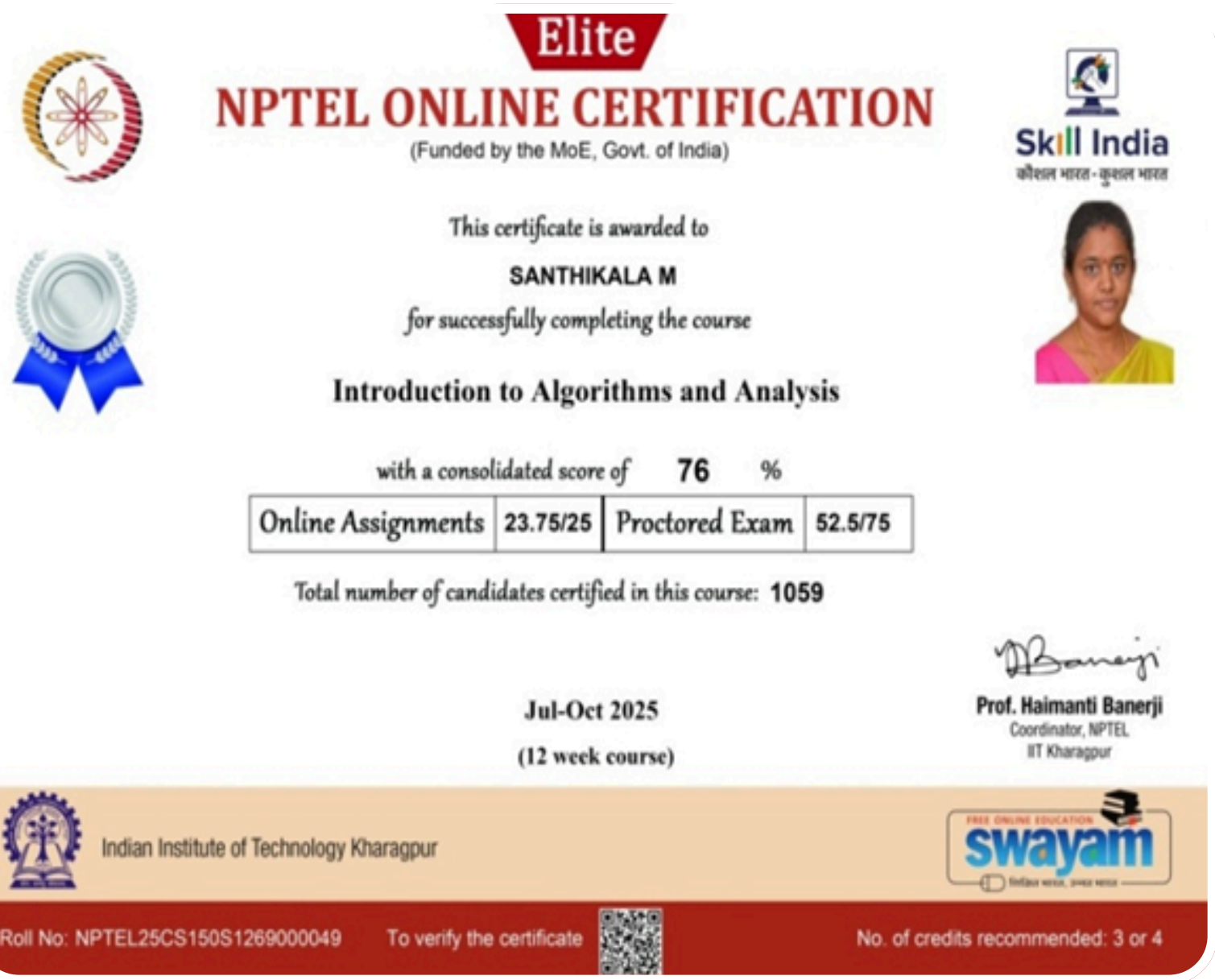
>> MRS. M.SANTHIKALA, AP /AI&DS, AWARDED 12 WEEKS ONLINE CERTIFICATION COURSE ON “INTRODUCTION TO MACHINE LEARNING” OFFERED BY SWAYAM-NPTEL, ON JUL-OCT 2025.



>> MRS. M.SANTHIKALA, AP /AI&DS, AWARDED 12 WEEKS ONLINE CERTIFICATION COURSE ON “DEEP LEARNING – IIT REPAR” OFFERED BY SWAYAM-NPTEL, ON JUL-OCT 2025.



>> MRS. M.SANTHIKALA, AP /AI&DS, AWARDED 12 WEEKS ONLINE CERTIFICATION COURSE ON “INTRODUCTION TO ALGORITHMS AND ANALYSIS” OFFERED BY SWAYAM-NPTEL, ON JUL-OCT 2025.



STUDENTS PARTICIPATION

>> K. MAHIMA, II-AI&DS-A, HAS SUCCESSFULLY PARTICIPATED AN EVENT WITH ACTIVITY AND HANDS-ON PROJECT-BASED WORKSHOP, “A PRECURSOR AND A QUALIFIER TO THE RESIDENTIAL STUDENT WORKSHOP”, CONDUCTED AT THE MEPCO SCHLENK ENGINEERING COLLEGE ON 25TH OCTOBER 2025.

PALS
2025 - 2026

CERTIFICATE OF PARTICIPATION

This is to certify that

MAHIMA K

Student of II YEAR, ARTIFICIAL INTELLIGENCE AND DATA SCIENCE (AIDS) department from RAMCO INSTITUTE OF TECHNOLOGY, a Partner institute of PALS 2025-26,

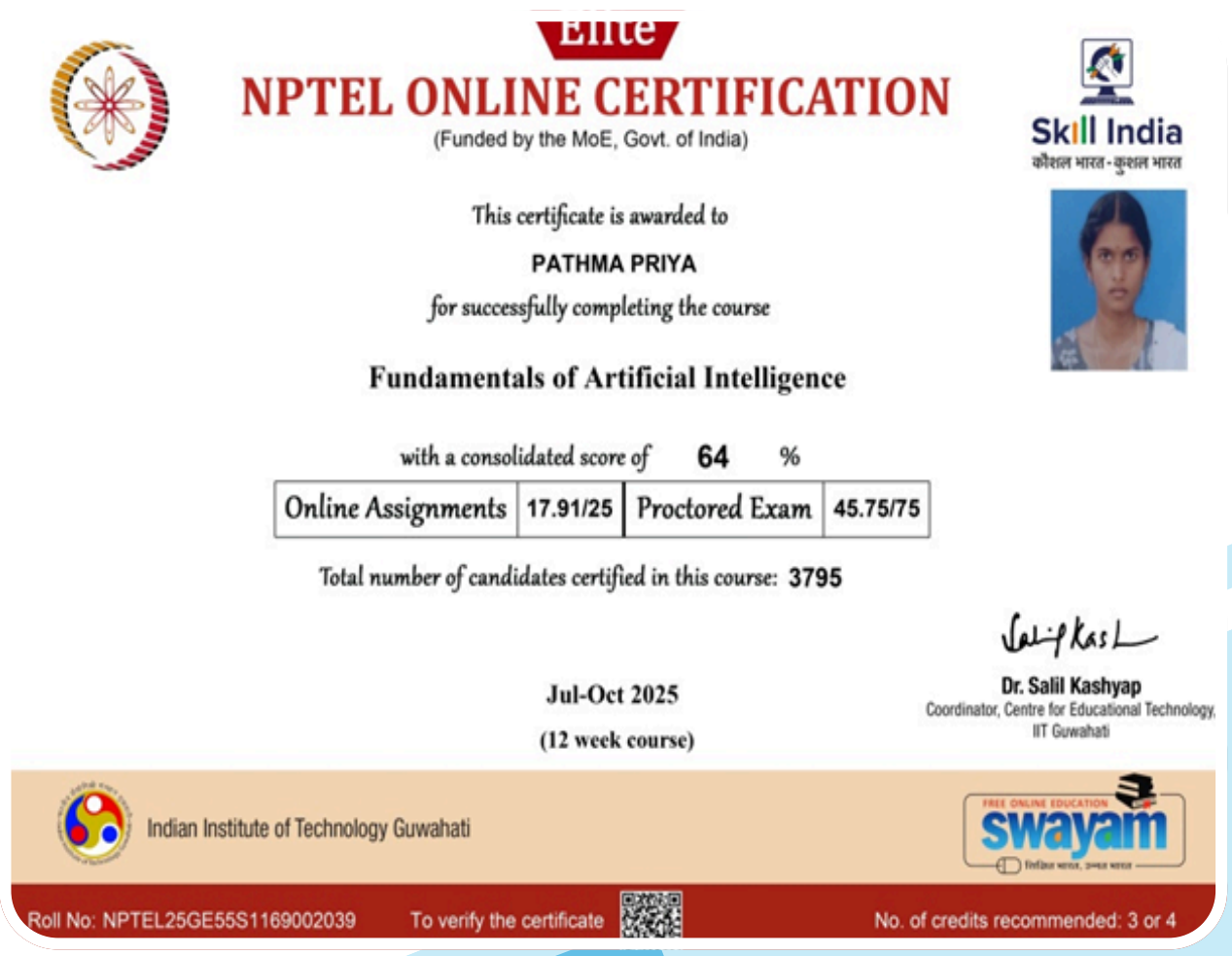
represented the college as a team member in the PALS Tinkathon, an event with activity and hands-on project-based workshop, a precursor and a qualifier to the Residential Student Workshop, conducted at the MEPCO SCHLENK ENGINEERING COLLEGE on 25th October 2025.

C N CHANDRASEKARAN
Chairman, PALS

an initiative of volunteers from Alumni fraternity of IIT's, focused on augmenting engineering education. Details in www.palsgen.org

PALS 2025 - 26 - TINKA - ROTN - 84

>> V. PATHMA PRIYA, II-AI&DS-A, AWARDED 12 WEEKS ONLINE CERTIFICATION COURSE ON “FUNDAMENTALS OF ARTIFICIAL INTELLIGENCE” OFFERED BY SWAYAM-NPTEL, ON JUL-OCT 2025.



Elite
NPTEL ONLINE CERTIFICATION
(Funded by the MoE, Govt. of India)

Skill India
कौशल भारत-कुशल भारत

This certificate is awarded to

PATHMA PRIYA

for successfully completing the course

Fundamentals of Artificial Intelligence

with a consolidated score of **64** %

Online Assignments	17.91/25	Proctored Exam	45.75/75

Total number of candidates certified in this course: **3795**

Jul-Oct 2025

(12 week course)

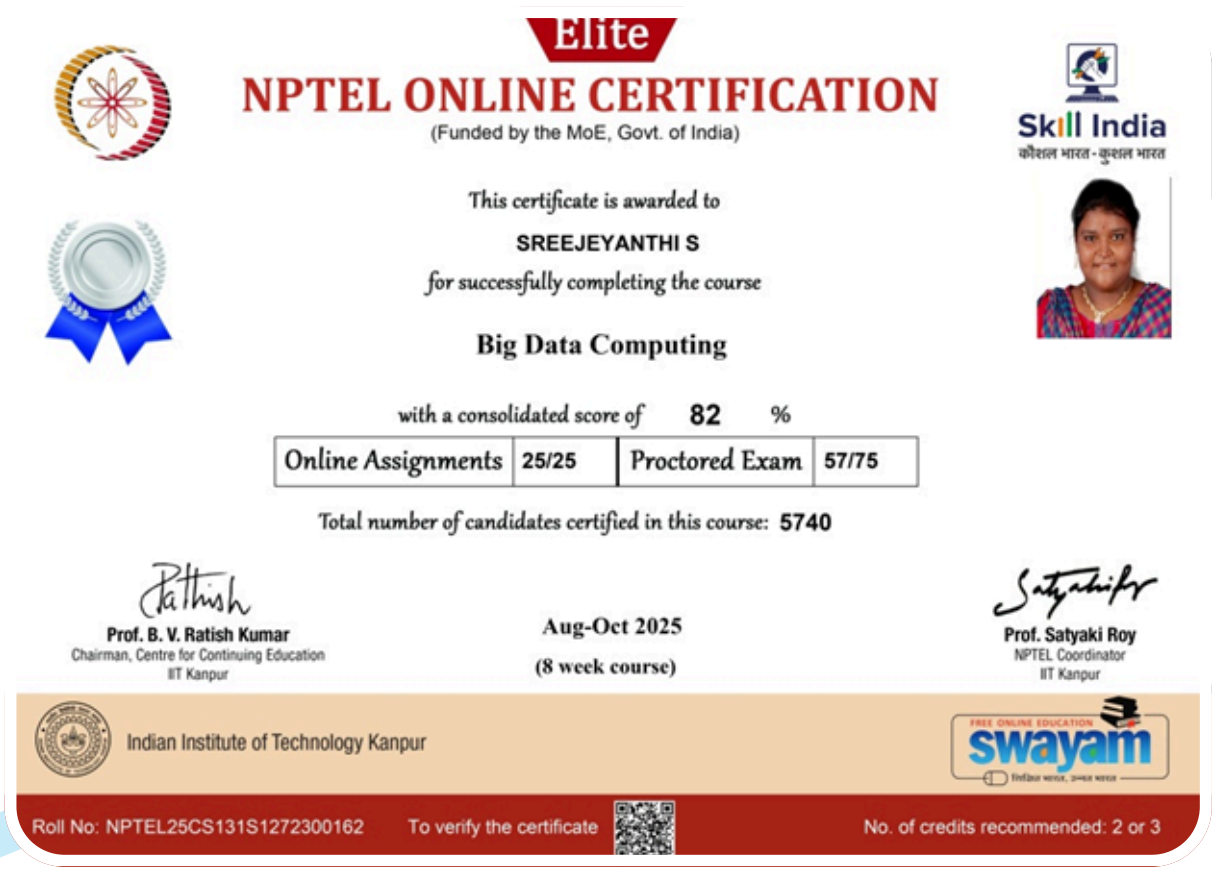
Dr. Salil Kashyap
Coordinator, Centre for Educational Technology,
IIT Guwahati

Indian Institute of Technology Guwahati

FREE ONLINE EDUCATION
swayam

Roll No: NPTEL25GE55S1169002039 To verify the certificate No. of credits recommended: 3 or 4

>> S. SREEJEYANTHI, III-AI&DS-B, AWARDED 8 WEEKS ONLINE CERTIFICATION COURSE ON “BIG DATA COMPUTING” OFFERED BY SWAYAM-NPTEL, ON AUG-OCT 2025.


Elite

NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)

Skill India
कौशल भारत-कुशल भारत

This certificate is awarded to

SREEJEYANTHI S

for successfully completing the course

Big Data Computing

with a consolidated score of 82 %

Online Assignments	25/25	Proctored Exam	57/75

Total number of candidates certified in this course: 5740

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

Aug-Oct 2025
(8 week course)

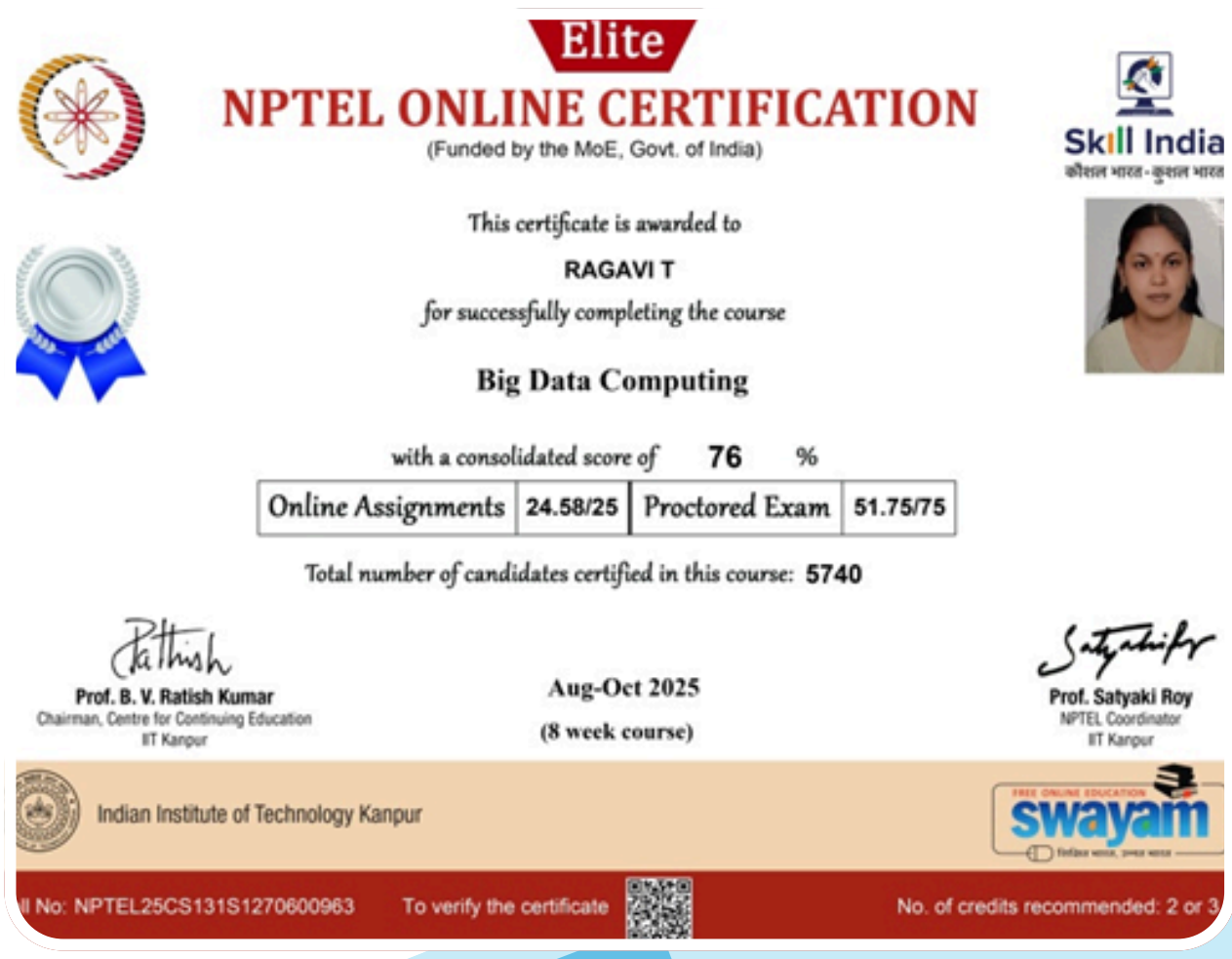
Prof. Satyaki Roy
NPTEL Coordinator
IIT Kanpur

Indian Institute of Technology Kanpur

swayam

Roll No: NPTEL25CS131S1272300162 To verify the certificate No. of credits recommended: 2 or 3

>> T. RAGAVI, III-AI&DS-B, AWARDED 8 WEEKS ONLINE CERTIFICATION COURSE ON “BIG DATA COMPUTING” OFFERED BY SWAYAM-NPTEL, ON AUG-OCT 2025.


Elite

NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)

Skill India
कौशल भारत-कुशल भारत

This certificate is awarded to

RAGAVI T

for successfully completing the course

Big Data Computing

with a consolidated score of 76 %

Online Assignments	24.58/25	Proctored Exam	51.75/75

Total number of candidates certified in this course: 5740

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

Aug-Oct 2025
(8 week course)

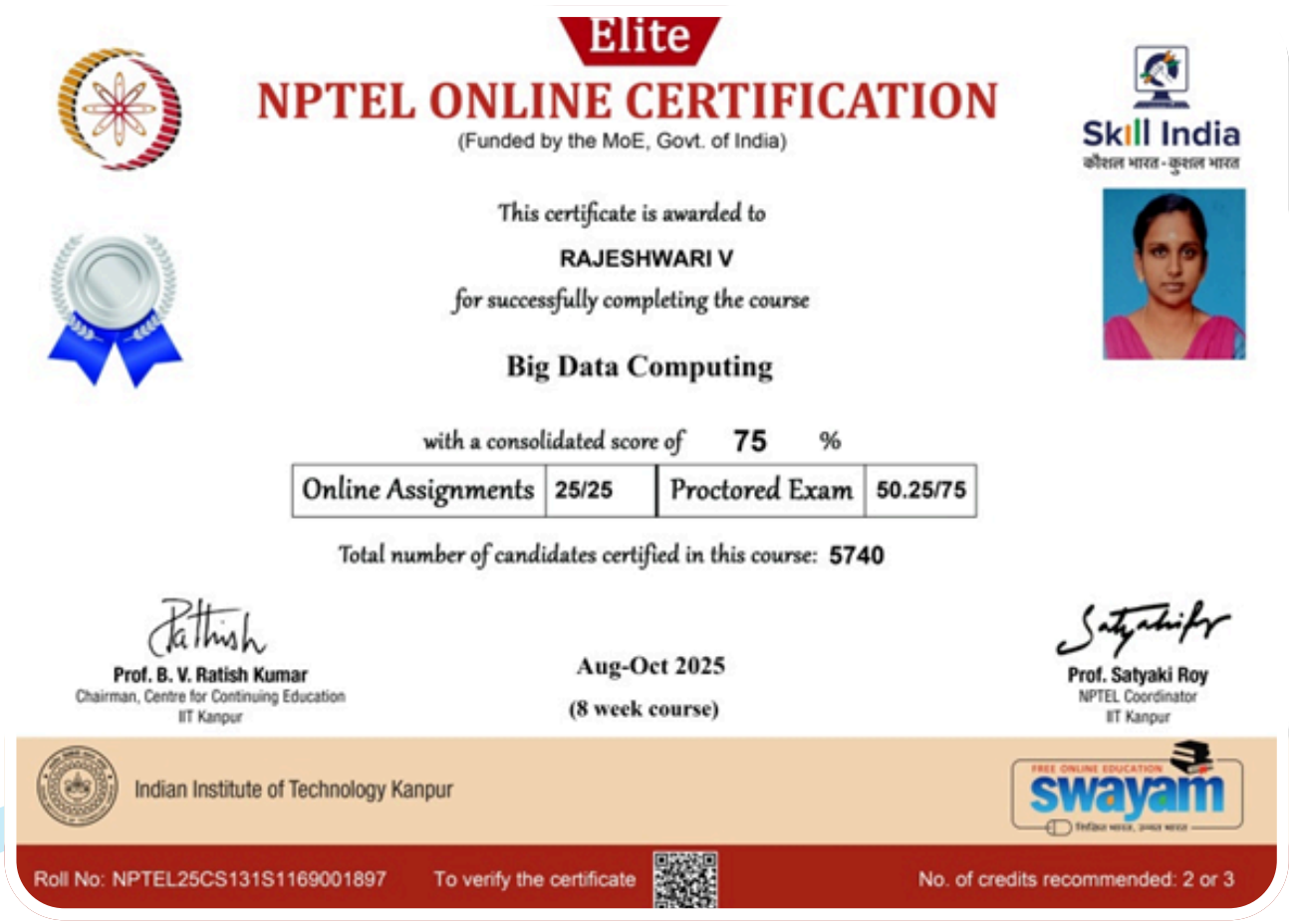
Prof. Satyaki Roy
NPTEL Coordinator
IIT Kanpur

Indian Institute of Technology Kanpur

swayam

ll No: NPTEL25CS131S1270600963 To verify the certificate No. of credits recommended: 2 or 3

>> V. RAJESHWARI, III-AI&DS-B, AWARDED 8 WEEKS ONLINE CERTIFICATION COURSE ON “BIG DATA COMPUTING” OFFERED BY SWAYAM-NPTEL, ON AUG-OCT 2025.


Elite

NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)

Skill India

कौशल भारत-कुशल भारत

This certificate is awarded to

RAJESHWARI V

for successfully completing the course

Big Data Computing

with a consolidated score of 75 %

Online Assignments	25/25	Proctored Exam	50.25/75

Total number of candidates certified in this course: 5740

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

Aug-Oct 2025

(8 week course)

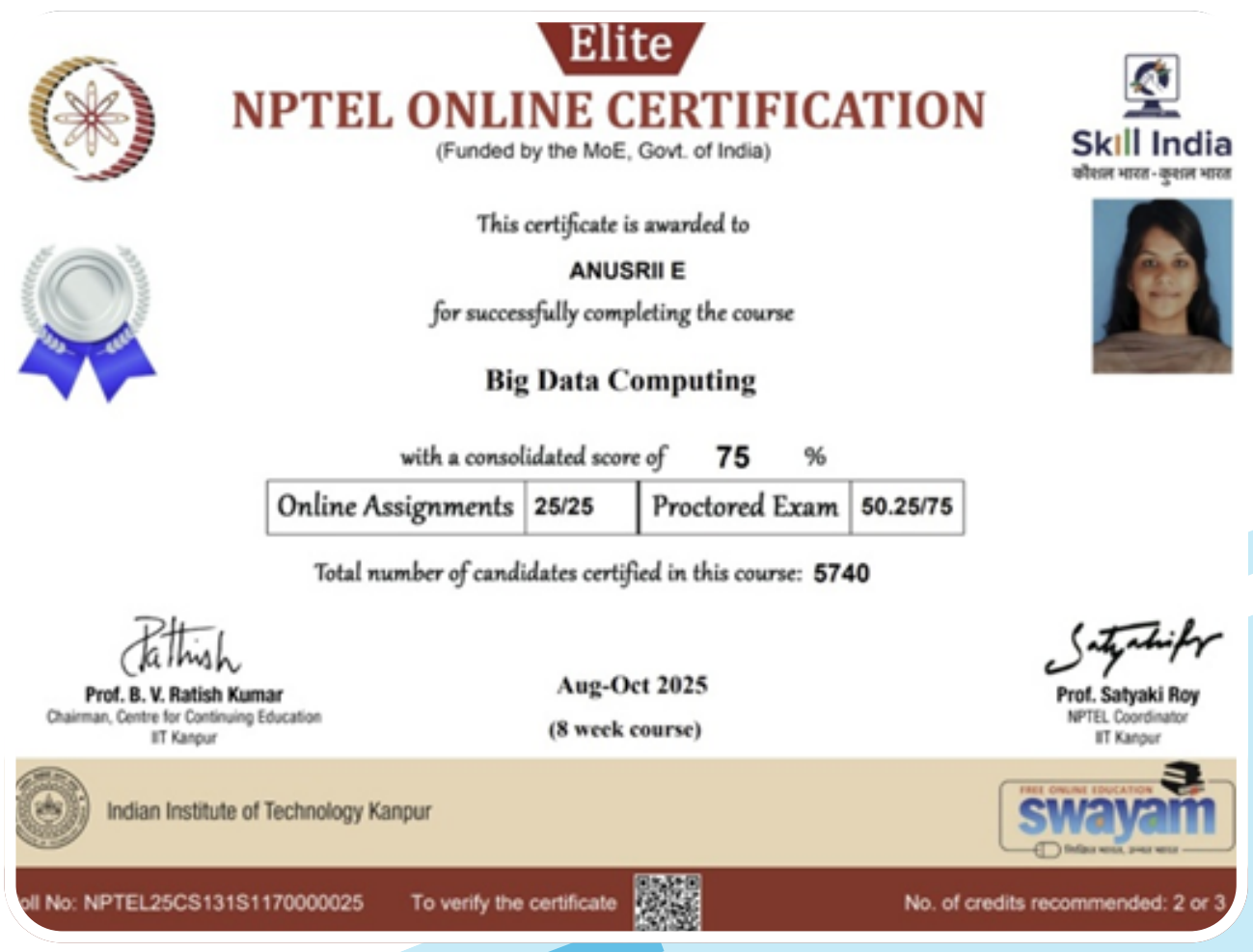
Prof. Satyaki Roy
NPTEL Coordinator
IIT Kanpur

Indian Institute of Technology Kanpur

swayam

Roll No: NPTEL25CS131S1169001897 To verify the certificate No. of credits recommended: 2 or 3

>> E. ANUSRII, III-AI&DS-B, AWARDED 8 WEEKS ONLINE CERTIFICATION COURSE ON “BIG DATA COMPUTING” OFFERED BY SWAYAM-NPTEL, ON AUG-OCT 2025.


Elite

NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)

Skill India

कौशल भारत-कुशल भारत

This certificate is awarded to

ANUSRII E

for successfully completing the course

Big Data Computing

with a consolidated score of 75 %

Online Assignments	25/25	Proctored Exam	50.25/75

Total number of candidates certified in this course: 5740

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

Aug-Oct 2025

(8 week course)

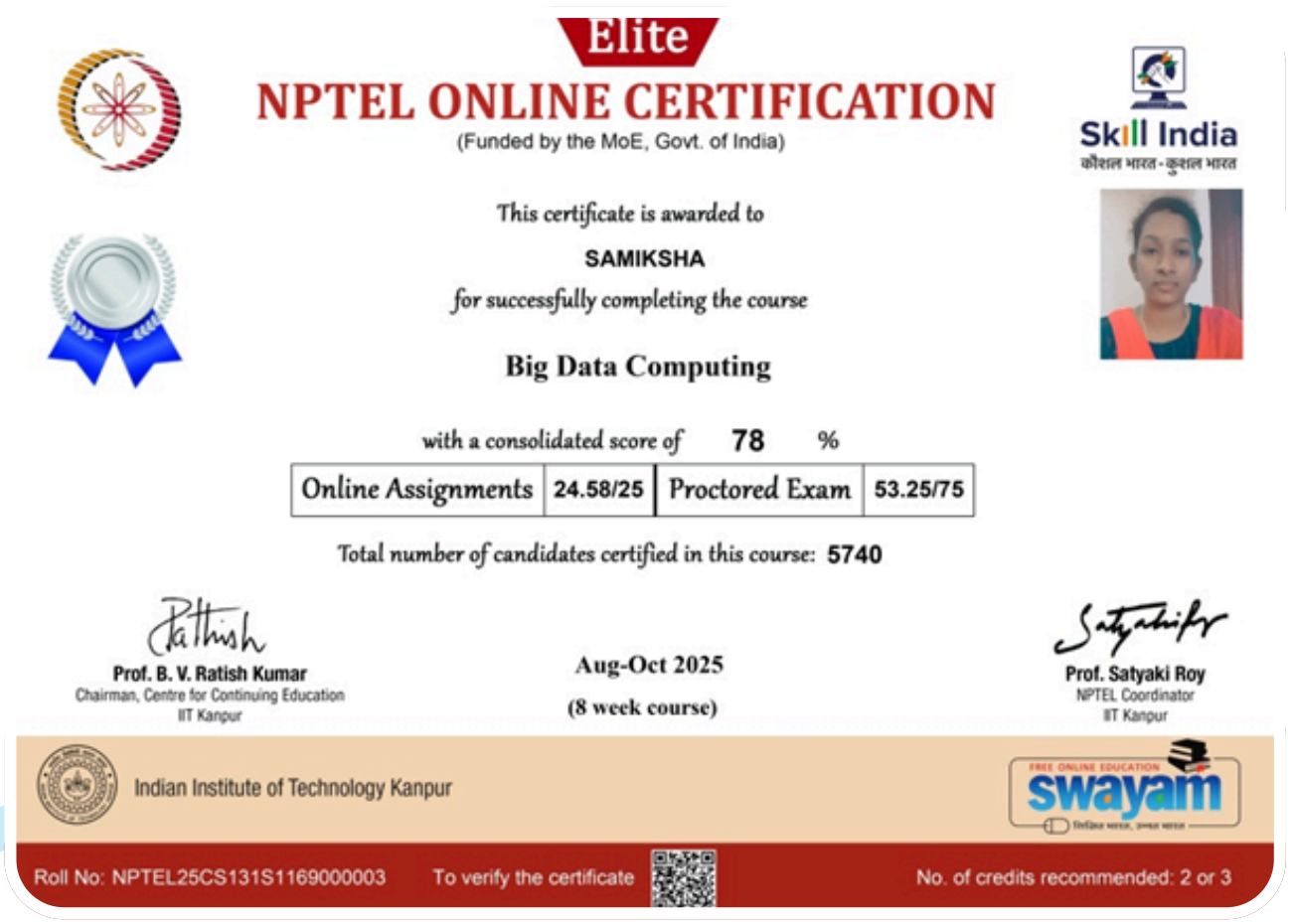
Prof. Satyaki Roy
NPTEL Coordinator
IIT Kanpur

Indian Institute of Technology Kanpur

swayam

oll No: NPTEL25CS131S1170000025 To verify the certificate No. of credits recommended: 2 or 3

>> M.SAMIKSHA, III-AI&DS-B, AWARDED 8 WEEKS ONLINE CERTIFICATION COURSE ON “BIG DATA COMPUTING” OFFERED BY SWAYAM-NPTEL, ON AUG-OCT 2025.


Elite

NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)

Skill India
कौशल भारत-कुशल भारत

This certificate is awarded to

SAMIKSHA

for successfully completing the course

Big Data Computing

with a consolidated score of 78 %

Online Assignments	24.58/25	Proctored Exam	53.25/75

Total number of candidates certified in this course: 5740

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

Aug-Oct 2025
(8 week course)

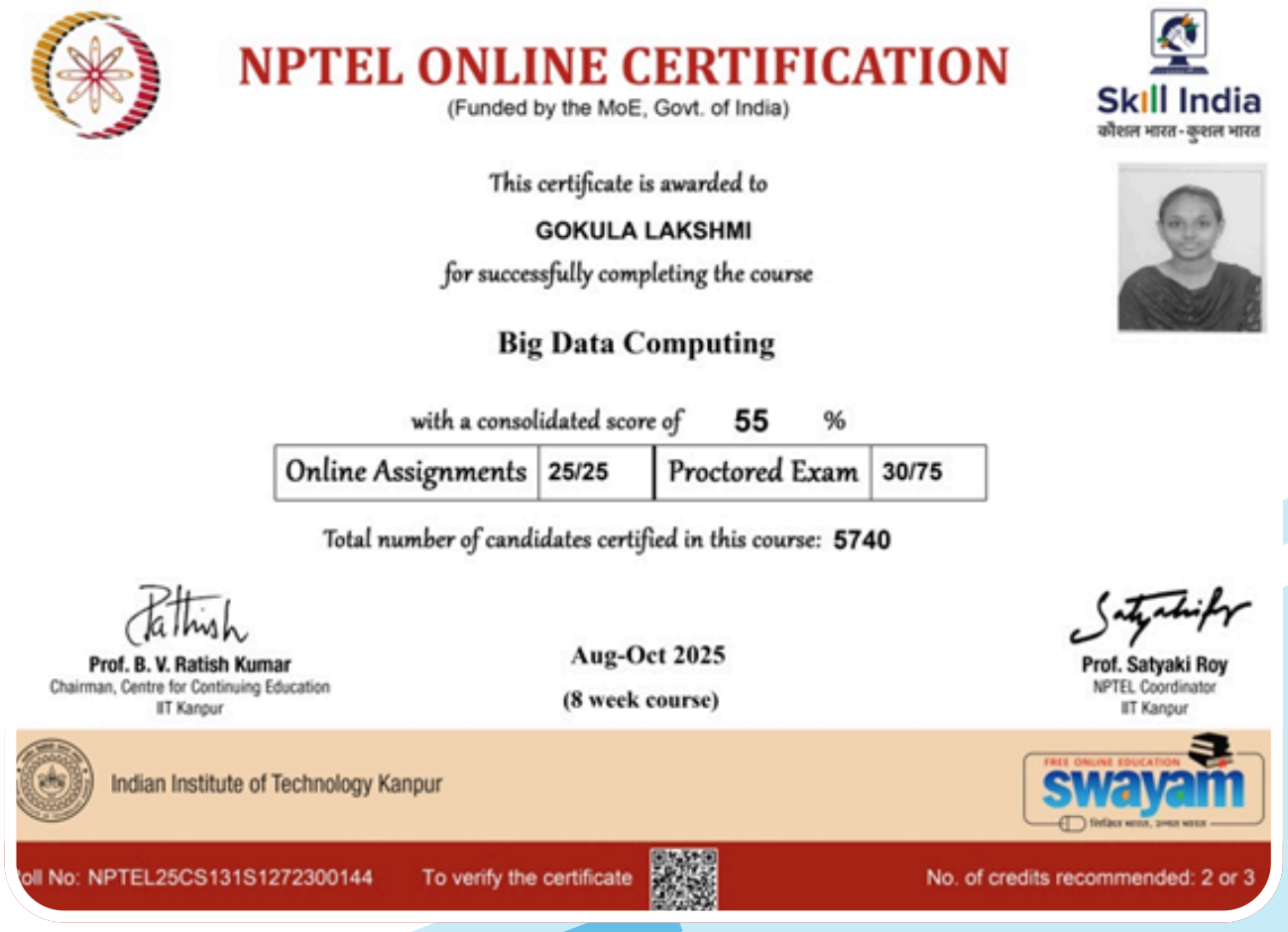
Prof. Satyaki Roy
NPTEL Coordinator
IIT Kanpur

Indian Institute of Technology Kanpur

swayam

Roll No: NPTEL25CS131S1169000003 To verify the certificate No. of credits recommended: 2 or 3

>> G. GOKULA LAKSHMI, III-AI&DS-B, AWARDED 8 WEEKS ONLINE CERTIFICATION COURSE ON “BIG DATA COMPUTING” OFFERED BY SWAYAM-NPTEL, ON AUG-OCT 2025.


NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)

Skill India
कौशल भारत-कुशल भारत

This certificate is awarded to

GOKULA LAKSHMI

for successfully completing the course

Big Data Computing

with a consolidated score of 55 %

Online Assignments	25/25	Proctored Exam	30/75

Total number of candidates certified in this course: 5740

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

Aug-Oct 2025
(8 week course)

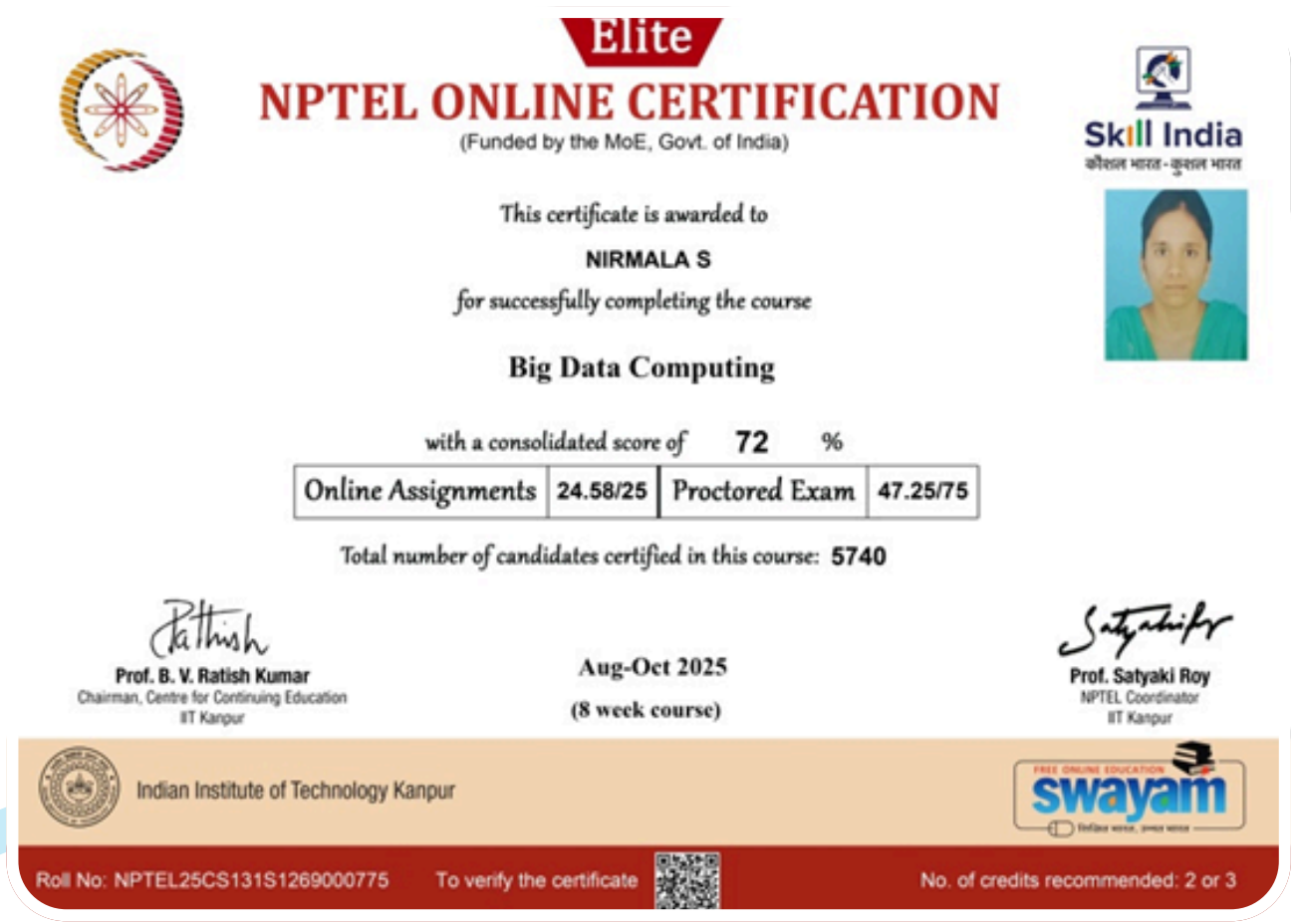
Prof. Satyaki Roy
NPTEL Coordinator
IIT Kanpur

Indian Institute of Technology Kanpur

swayam

oll No: NPTEL25CS131S1272300144 To verify the certificate No. of credits recommended: 2 or 3

>> S. NIRMALA, III-AI&DS-B, AWARDED 8 WEEKS ONLINE CERTIFICATION COURSE ON “BIG DATA COMPUTING” OFFERED BY SWAYAM-NPTEL, ON AUG-OCT 2025.


Elite

NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)

Skill India

This certificate is awarded to

NIRMALA S

for successfully completing the course

Big Data Computing

with a consolidated score of 72 %

Online Assignments	24.58/25	Proctored Exam	47.25/75

Total number of candidates certified in this course: 5740

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

Aug-Oct 2025
(8 week course)

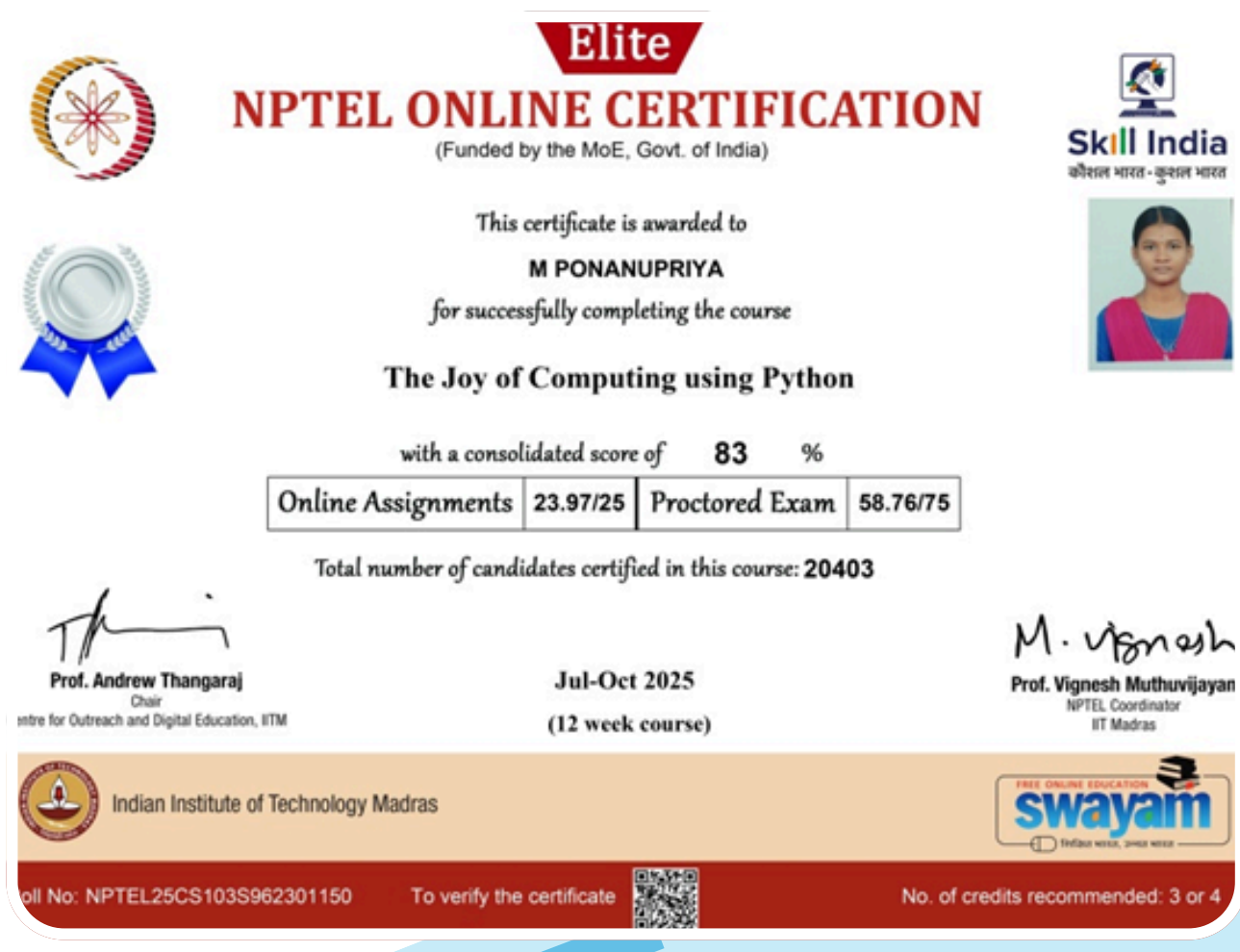
Prof. Satyaki Roy
NPTEL Coordinator
IIT Kanpur

Indian Institute of Technology Kanpur

swayam

Roll No: NPTEL25CS131S1269000775 To verify the certificate No. of credits recommended: 2 or 3

>> M. PONANUPRIYA, II-AI&DS-B, AWARDED 12 WEEKS ONLINE CERTIFICATION COURSE ON “THE JOY OF COMPUTING USING PYTHON” OFFERED BY SWAYAM-NPTEL, ON JUL-OCT 2025.


Elite

NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)

Skill India

This certificate is awarded to

M PONANUPRIYA

for successfully completing the course

The Joy of Computing using Python

with a consolidated score of 83 %

Online Assignments	23.97/25	Proctored Exam	58.76/75

Total number of candidates certified in this course: 20403

Prof. Andrew Thangaraj
Chair
ntre for Outreach and Digital Education, IITM

Jul-Oct 2025
(12 week course)

Prof. Vignesh Muthuvijayan
NPTEL Coordinator
IIT Madras

Indian Institute of Technology Madras

swayam

oll No: NPTEL25CS103S962301150 To verify the certificate No. of credits recommended: 3 or 4

>> K.KALAI ARASI, M.MUTHUMALA, R.ABINAYA, P.ISHALAKSHMI, M.POOJA, II-AI&DS-A, T.PRINCY ROOPAVATHY, M. PRASITHA, M.MAGALAKSHMI, A.ARCHANA, P.ROSHINI , J. GULRASE , M. JEIESWARI, II-AI&DS-B, HAS SUCCESSFULLY PARTICIPATING IN THE EVENT “3D CHEF”, ORGANIZED BY ECO CLUB & TAMIL MANDRAM, RIT, RAJAPALAYAM ON 16.10.2025.


RAMCO INSTITUTE OF TECHNOLOGY
RAJAPALAYAM - 626 117
Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai,
Accredited with NAAC 'A+' & An ISO 9001:2015 Certified Institution
NBA Accredited UG programs: CSE, EEE, ECE and MECH
Certificate of Appreciation
Eco Club & Tamil Mandram
Presented to
Mr./Ms. Kalai Arasi K of I/II/III/IV Year B.E./B.Tech.
AI&DS for actively participating
in the event 3D Chef conducted
on 16/10/2025 during the academic year 2025-2026. He/she has secured
the ~~First~~ / ~~Second~~ / ~~Third~~ place.
16.10.25
FACULTY COORDINATOR
ECA COORDINATOR
VICE PRINCIPAL
PRINCIPAL

>> E.DHANALAKSHMI, K. MEERADHARSHNI , M.KRISHNAVENI , M.NITHIYA SRI , R.ANUSHREE, A.UMABHARATHI, III-AI&DS-B, HAS SUCCESSFULLY PARTICIPATING IN THE EVENT “3D CHEF” , ORGANIZED BY ECO CLUB & TAMIL MANDRAM, RIT, RAJAPALAYAM ON 16.10.2025.


RAMCO INSTITUTE OF TECHNOLOGY
RAJAPALAYAM - 626 117
Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai,
Accredited with NAAC 'A+' & An ISO 9001:2015 Certified Institution
NBA Accredited UG programs: CSE, EEE, ECE and MECH
Certificate of Appreciation
Eco Club & Tamil Mandram
Presented to
Mr./Ms. Dhanalakshmi E of I/II/III/IV Year B.E./B.Tech.
AI&DS for actively participating
in the event 3D Chef conducted
on 16/10/2025 during the academic year 2025-2026. He/she has secured
the ~~First~~ / ~~Second~~ / ~~Third~~ place.
16.10.25
FACULTY COORDINATOR
ECA COORDINATOR
VICE PRINCIPAL
PRINCIPAL

>> M.ARUMUGA TAMIL SELVAN, M.MATHANKUMAR, G.KALEESWARAN, IV-AI&DS-B, HAS SUCCESSFULLY PARTICIPATING IN THE EVENT “3D CHEF” , ORGANIZED BY ECO CLUB & TAMIL MANDRAM, RIT, RAJAPALAYAM ON 16.10.2025.


RAMCO INSTITUTE OF TECHNOLOGY
RAJAPALAYAM - 626 117
Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai,
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NBA Accredited UG programs: CSE, EEE, ECE and MECH

Certificate of Appreciation

Eco Club & Tamil Mandram

Presented to

Mr./Ms. Arumuga Tamil Selvan M of I/II/III/IV Year B.E./B.Tech.

AI & DS for actively participating

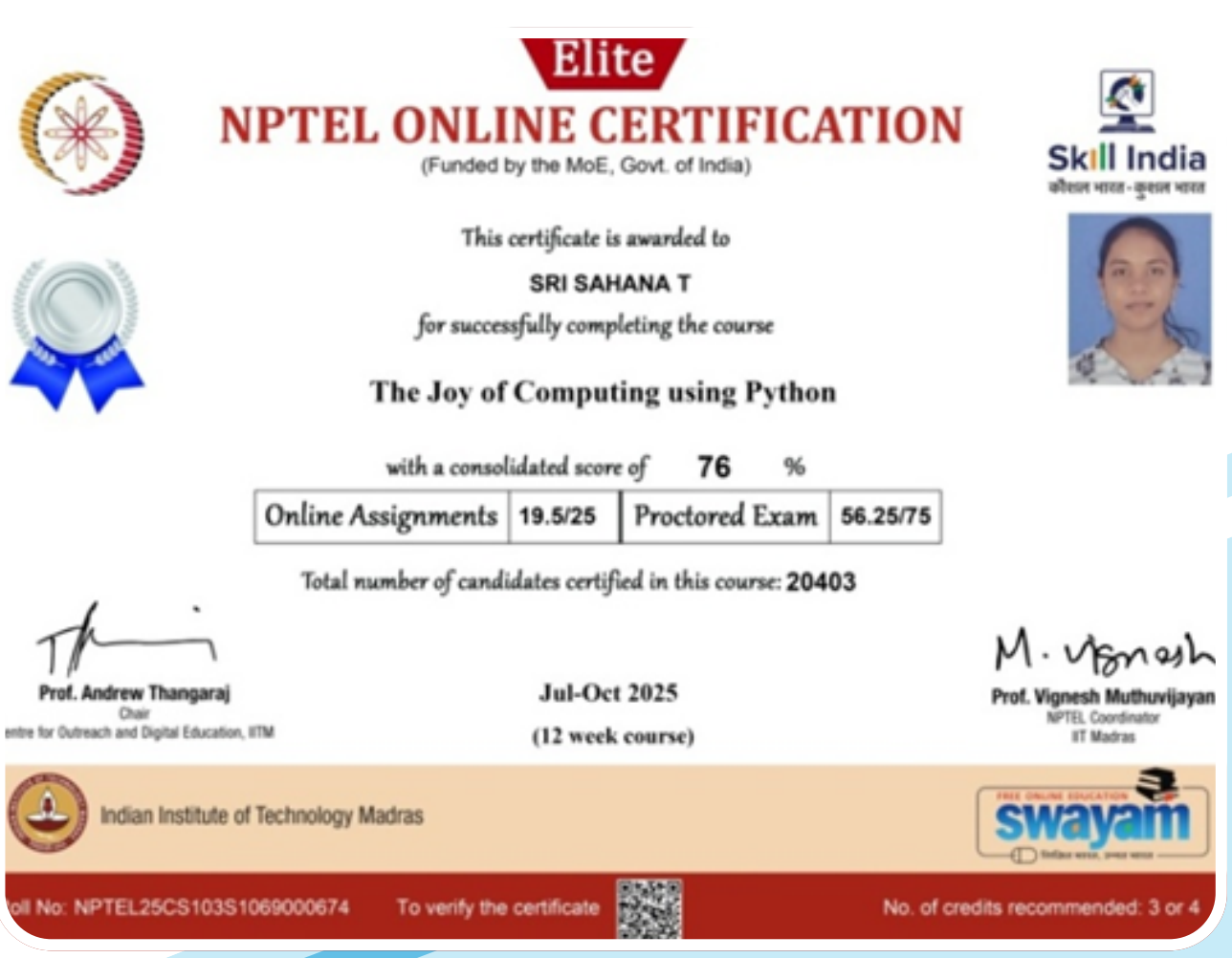
in the event 3D CHEF conducted

on 16/10/2025 during the academic year 2025-2026. He/she has secured

the ~~First~~ / ~~Second~~ / ~~Third~~ place.

FACULTY COORDINATOR
ECA COORDINATOR
VICE PRINCIPAL
PRINCIPAL

>> T. SRI SAHANA, I-AI&DS-B, AWARDED 12 WEEKS ONLINE CERTIFICATION COURSE ON “THE JOY OF COMPUTING USING PYTHON” OFFERED BY SWAYAM-NPTEL, ON JUL-OCT 2025.


Elite

NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)

Skill India

This certificate is awarded to

SRI SAHANA T

for successfully completing the course

The Joy of Computing using Python

with a consolidated score of 76 %

Online Assignments	19.5/25	Proctored Exam	56.25/75

Total number of candidates certified in this course: 20403

Prof. Andrew Thangaraj
Chair
Centre for Outreach and Digital Education, IITM

Jul-Oct 2025
(12 week course)

Prof. Vignesh Muthuvijayan
NPTEL Coordinator
IIT Madras

Indian Institute of Technology Madras

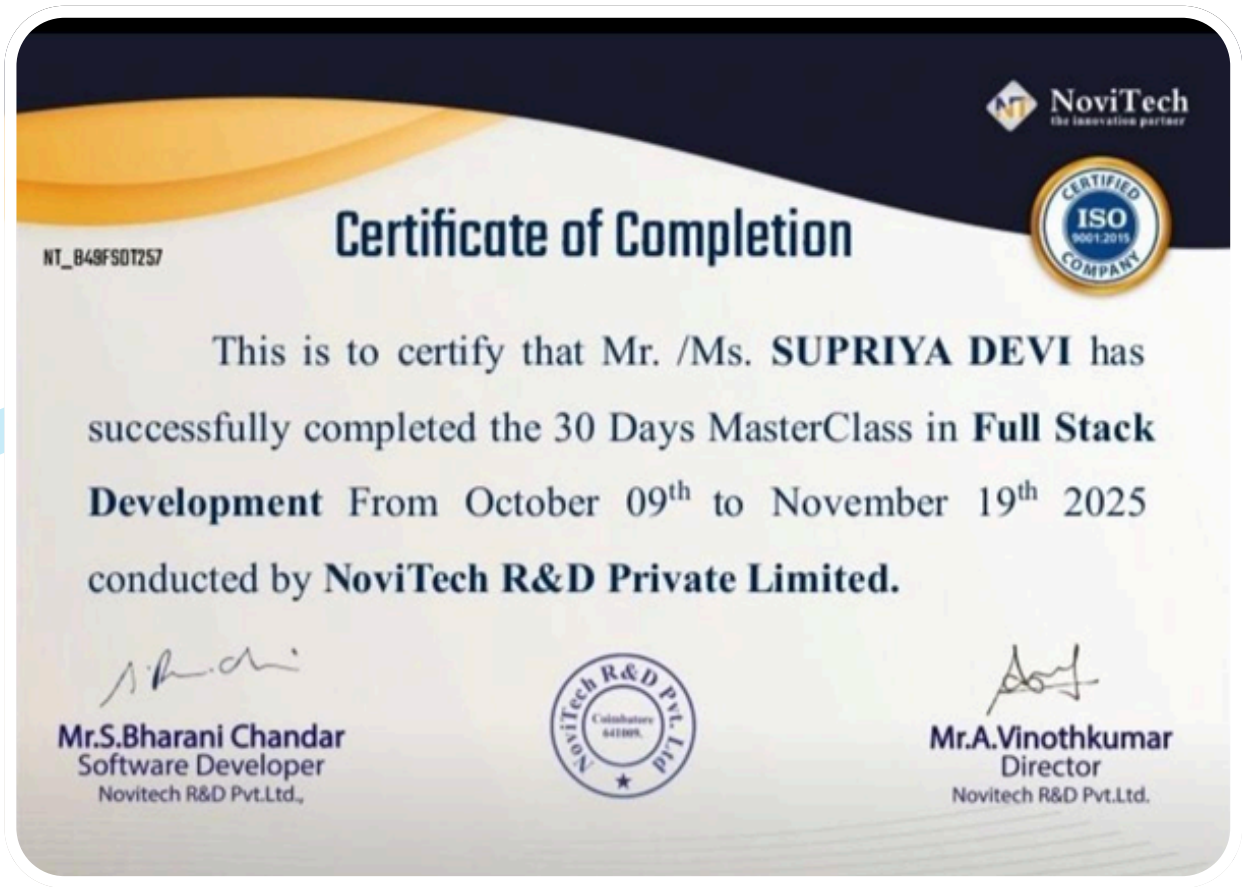
swayam

Enroll No: NPTEL25CS103S1069000674 To verify the certificate No. of credits recommended: 3 or 4

>> J.CHITRAKALA, A. HARI KRISHNAN, S.G.HARISHINI, S.D.JAGADIISH, M.MAHALAKSHMI, S.KAVYA SHREE, A.JEEVA SHRI, J.RAJADHARSINI, R.MUTHU GURU GOWSALYA, B.RATCHITA, R.SWETHA, IV-AI&DS-A, M.BRINDASRI, A.ABIRAMI, K. NITHYA SHREE, KARTHIKA LAKSHMI, S. SARAVANAKUMAR, L.VARSHA, C.SUBAMADHAVAN, M.THANGAMUTHUMARI PREETHI, IV-AI&DS-B, HAS SUCCESSFULLY COMPLETING THE TALENTNEXT COURSE ON “JAVA FULL STACK” DURING THE PERIOD JULY TO OCTOBER IN THE YEAR 2025, OFFERED BY WIPRO.

>> T.BLESSON PAUL, III-AI&DS-B, HAS SUCCESSFULLY PARTICIPATING IN THE "ZYPHER EVENT 2025 - BRIDGE THE GAP, BUILD THE CONNECTION", HELD ON 23 NOV., 2025, AT BOW BLISS-RESTAURANT & CAFE, COIMBATORE.

>> A.SUPRIYA DEVI, II-AI&DS-A, HAS SUCCESSFULLY COMPLETED THE 30 DAYS MASTERCLASS IN "FULL STACK DEVELOPMENT", FROM OCTOBER 9TH TO NOVEMBER 19TH 2025 , CONDUCTED BY NOVITECH R&D PRIVATE LIMITED.



STUDENTS ACHIEVEMENT

>> J. GULRASE , M. JEIESWARI, II- AI&DS-B, HAS SUCCESSFULLY PARTICIPATING IN THE EVENT “3D CHEF” , GOT THE THIRD PLACE , ORGANIZED BY ECO CLUB & TAMIL MANDRAM, RIT, RAJAPALAYAM ON 16.10.2025.

RAMCO INSTITUTE OF TECHNOLOGY

RAJAPALAYAM - 626 117

Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai,
Accredited with NAAC ‘A+’ & An ISO 9001:2015 Certified Institution
NBA Accredited UG programs: CSE, EEE, ECE and MECH

Certificate of Appreciation

Eco Club & Tamil Mandram

Presented to

Mr./Ms. GULRASE J of I/II/III/IV Year B.E./B.Tech.

AI&DS for actively participating

in the event 3D CHEF conducted

on 16/10/2025 during the academic year 2025-2026. ~~He/she~~ has secured

the ~~First~~ / ~~Second~~ / Third place.

N.Renuga 16.10.25

R. Saravana 16/10/2025
FACULTY COORDINATOR

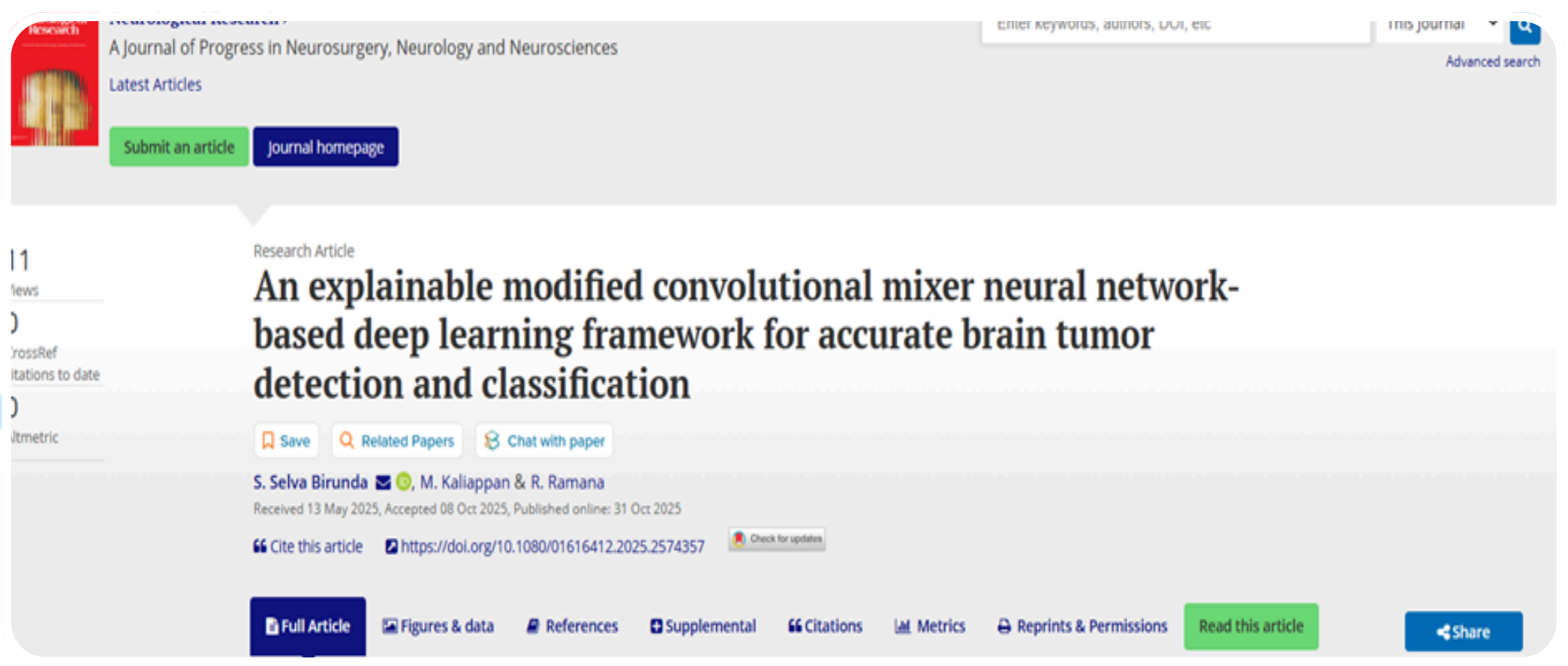
ECA COORDINATOR

VICE PRINCIPAL

16/10/25
PRINCIPAL

FACULTY PUBLICATION

>> S. SELVA BIRUNDA., M. KALIAPPAN, & R. RAMANA, (2025). AN EXPLAINABLE MODIFIED CONVOLUTIONAL MIXER NEURAL NETWORK-BASED DEEP LEARNING FRAMEWORK FOR ACCURATE BRAIN TUMOR DETECTION AND CLASSIFICATION. NEUROLOGICAL RESEARCH, 1–16. HTTPS://DOI.ORG/10.1080/01616412.2025.2574357.



>> R.S. SELVI, R . R . MURUGESAN., J. WEKALAO., & A. RAJAKANNU, (2025). ADVANCED MXENE-GOLD HYBRID PLASMONIC BIOSENSOR FOR EARLY DETECTION OF TUBERCULOSIS BIOMARKERS WITH MACHINE LEARNING OPTIMIZATION. PLASMONICS (NORWELL, MASS.). DOI:10.1007/S11468-025-03178-Y.

Advanced MXene–Gold Hybrid Plasmonic Biosensor for Early Detection of Tuberculosis Biomarkers With Machine learning optimization

RESEARCH | Published: 28 October 2025

(2025) Cite this article

Plasmonics

Aims and scope →

Submit manuscript →

R. Senthamizh Selvi, Rajeshwari Ramaiah Murugesan, Jacob Wekalao & Amuthakkannan Rajakannu

>> TRIPATHY, J., KALIAPPAN, M., CHELLATHEVAR, G. K., RAJ, J. R. F., SHANMUGASUNDARAM, R., ALAGARSAMY, M., ... ALGAHTANI, A. (2025). INTEGRATING BLOCKCHAIN AND IOT WITH ADVANCED PREDICTIVE MODELING FOR ENERGY EFFICIENT URBAN TRANSPORTATION SYSTEMS. SUSTAINABLE COMPUTING INFORMATICS AND SYSTEMS, 48(101208), 101208. DOI:10.1016/J.SUSCOM.2025.101208

ELSEVIER

Sustainable Computing: Informatics and Systems

Volume 48, December 2025, 101208

Integrating blockchain and iot with advanced predictive modeling for energy efficient urban transportation systems

Jyotsnarani Tripathy [a], M. Kaliappan [b], Gnana Kousalya Chellathevar [c], J. Relin Francis Raj [d], Ravivarman Shanmugasundaram [e], Manjunathan Alagarsamy [f], S.Patricia Nancy [g], Ali Algahtani [a b h i]

>> RAVINDRAN, S., BALACHANDRAN, G. B., MURUGESAN, P., & RAMACHANDRAN, M. E. (2026). APPLIED THERMAL ENHANCEMENT IN SOLAR DESALINATION: A HYBRID PV/T SYSTEM WITH FAN AND SCRAPER ASSIST. APPLIED THERMAL ENGINEERING, 282(128861), 128861. DOI:10.1016/J.APPLTHERMALENG.2025.128861.

Applied Thermal Engineering 282 (2026) 128861

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journal homepage: www.elsevier.com/locate/apthermeng

Research Paper

Applied Thermal Enhancement in Solar Desalination: A Hybrid PV/T System with Fan and Scraper Assist

Santhiya Ravindran [a], Gurukarthik Babu Balachandran [b,*], Palpandian Murugesan [c], Muthu Eshwaran Ramachandran [d]

[a] Department of Electronics and Communication Engineering, Mepco Schlenk Engineering College, Sivakasi, Tamil Nadu 626005, India
[b] Department of Electrical and Electronics Engineering, Kamaraj College of Engineering and Technology, Madurai, Tamil Nadu 625701, India
[c] Department of Electrical and Electronics Engineering, AAA College of Engineering and Technology, Amathur, Sivakasi, Tamil Nadu 626 123, India
[d] Department of Artificial Intelligence and Data Science, Ramco Institute of Technology, Rajapalayam, Tamil Nadu 626117, India

ARTICLE INFO

Keywords:
Double fan
Energy/exergy payback time
Hybrid system
Solar photovoltaic module
Waste

ABSTRACT

Water is essential for all living beings, making the preservation of existing sources crucial to addressing water scarcity. However, many water sources are polluted or saline, making them unsuitable for drinking. Converting saline water into fresh water is vital for future demand management. A solar still (SS) based desalination system effectively transforms polluted water into potable water, but traditional systems suffer from low efficiency due to less evaporation and condensation rate. This study proposes a hybrid PV/T (photovoltaic/thermal) system consists conventional SS with a metal scraper (CSSMS), double fan (CSSDF), and both combined (CSSMSDF). The obtained results reveals that the hybrid PV/T system integrated with CSSMSDF exhibits superior performance compared to the other cases, achieving minimum distillation production cost of 0.011 $/L, maximum annual water yield of 948.663 L/m^2, payback period of 1.77 years (for energy) and 25.04 years (for exergy). Specifically, it achieves additional energy/exergy efficiency of (8.99 %, 0.52 %) over CSS, (7.69 %, 0.44 %) over CSSMS and (1.04 %, 0.008 %) over CSSDF.

1. Introduction

Water is an important and basic source for the survival of every human. Statistical data reveal that nearly 70 % Earth's surface is dominated by water. Its resource may be either naturally present or produced through human activities. The water that produced naturally is either freshwater or saline water that depends on the salinity level. In the world water resources, 96.5 % of world water is found in the oceans and seas with average salinity of 350 ppm, where ice caps shared 1.7 %, underground in aquifers is shared 1.6 %, and rivers & lakes shared only 0.015 %. The freshwater is naturally renewable which are found in rivers, lakes and in underground aquifers. Aquifers hold the estimated volume of (10,530*1000) km^3 followed by the lakes & rivers with 91,000 km^3 and 2100 km^3 respectively. This water is used to serves various purposes with direct human consumption of 10–12 %, 15 % for irrigation and 70–75 % for agriculture purposes. The consumption of freshwater is higher its natural recharge rates. Although the surface water is common, it represents only 0.27 % of fresh water. Due to industrialization, urbanization the resources for water are increasingly polluted and leads to water scarcity [1,2]. So, it is most significant to get potable drinking water by converting polluted water for managing the demand of freshwater.

Desalination [3] is the process that take out the minerals and dissolved salts from the seawater or brackish water, thereby making it suitable for drinking with a parts per million of less than 500. The conventional desalination methods like vapor compression, humidification, dehumidification, ion exchange, electro dialysis, thin-film desalination and reverse osmosis are found to be complex and expensive process. Solar [4,5] still based desalination [6,7] has gained attraction in the arid areas which have abundant sunshine duration and scarce for fresh water. In SS, water is left in a container which is in open condition to evaporate and reach the air form. SS is functions to capture the evaporated water and condense it on the cold surface. The sluggish evaporation process of pure water leads for leaving whole contaminants within the system. The major benefits of solar stills [8] are, it is reliable system, low cost, simple maintenance and less environmental impact. Meanwhile, its drawback is the low conversion efficiency and

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E-mail addresses: santhiya2912@gmail.com (S. Ravindran), mepsbgurus@gmail.com (G.B. Balachandran), palpandianm@gmail.com (P. Murugesan), mailtoemec@gmail.com (M.E. Ramachandran).

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