



**Report**

**on**

**AICTE - ATAL VAANI**

**Three Day Seminar on**

**“AI Innovations for Smart Villages and Rural Mobility  
for Sustainable Growth Emerging Field”**

**Report Submitted By :**

***Madanapalle Institute of technology & Science,  
Madanapalle, Andhra Pradesh -517325***

Dr. Bulla rajesh - CSE, Asst. Professor, IIIT Sricity



**Ph.D. in Information Technology, August 2022, Indian Institute of Information Technology Allahabad**  
**M.Tech. in Information Technology, July 2018, Indian Institute of Information Technology Allahabad**  
**Areas of Interest : Image and Video Processing, Document Image Analysis, Compressed domain processing, Artificial Intelligence**

Dr. P.C. Prabhu Kumar, Professor & Head- CSE



**Prof and head, Dept of CSE, Mother Theresa Institute of Engineering and Technology ,Experience 15 yrs**  
**Published journals : 20 (SCI/SCOPUS)**  
**PhD Guiding : 3 members**  
**Research Areas : IOT, AI, CLOUD, Blockchain**  
**Reviewer and Board members for Some International Journals**

Mrs. Shruthi Deepak, CSIR 4PI -DST Women Scientist A -Bangalore



**Sri Sathya Sai University For Human Excellence -Doctor of Philosophy - PhD, Mathematical and Computational Science Health and Wellness, General**  
**Senior Research Assistant -CSIR Centre for Mathematical Modelling and Computer Simulation (C-MMACS)**

Dr. Chidambar B , Asst Prof, SSSUHE- Bangalore



**Asst Prof,SSSUHE | Trustee,E1E1 | AI Speech Researcher -Sri Sathya Sai University For Human Excellence –**  
**Doctor of Philosophy - PhD, Mathematical and Computational Science**  
**Master of Technology - Artificial Intelligence- PES University**

**Mr.K.Abhijith Saralya ,L&D Head, ACL Pvt Limited, Bangalore**



**Founder & CEO – SMAGJ Enterprises - Driving innovation, service excellence, and operational growth in field of Automobile, Education, Event Management, IT&HR. Dedicated educator and technical mentor with expertise in C, Java, C#, Tableau, and MySQL. Experienced in AWS services, Spring framework, and ESS, with a strong background in providing technical support for corporate projects leveraging these technologies.**

**Dr G N Vivekananda , Assc. Prof, SCORE, VIT Vellore**



**Assc. Prof, SCORE, VIT Vellore Learner | Associate Professor at VIT Vellore | IEEE Sr. Member | Microsoft Certified Educator**  
**Doctor of Philosophy – CSE- JNTU Anantapur**  
**Master of Technology – CSE- JNTU A**  
**His research interests include** Networks, Security, AI, ML, IoT, Cloud Computing, and Cyber-Physical Systems. **He is a member of** IEEE, CSI, ISTE, and IEL.

**The schedule of the workshop was as below**

Day	Morning Session		Afternoon Session	
(1) 31.7.25	<b>Session I</b> <b>Inauguration</b> <b>Dr. Bulla Rajesh</b> Assistant Professor, Indian Institute of Information Technology, Sri City,Tirupathi. <i>Topic: AI for Rural Agriculture: Smart Farming and Precision Techniques</i>	<b>Session II</b> <b>Dr. Bulla Rajesh</b> Assistant Professor Indian Institute of Information Technology, Sri City,Tirupathi. <i>Topic: AI-Powered Rural Healthcare: Telemedicine and Diagnostics</i>	<b>Session III</b> <b>Dr. P.C. Prabhu Kumar</b> Professor and Head Dept of CSE, Mother Theresa Institute of Engineering and Technology, Palamanery,Andhra Pradesh <i>Topic: Role of AI and IoT in Building Smart Village Ecosystems</i>	<b>Session IV</b> <b>Dr. P.C. Prabhu Kumar</b> Professor and Head Dept of CSE, Mother Theresa Institute of Engineering and Technology, Palamanery,Andhra Pradesh <i>Topic: Case Studies of Successful Smart Villages (Global and Indian Examples)</i>
(2) 1.8.25	<b>Session V</b> <b>Shruthi Deepak</b> Women Scientist, Council of Scientific & Industrial Research, Bangalore,Karnataka <i>Topic: Introduction to AI in Rural Development and Smart Villages</i>	<b>Session VI</b> <b>Shruthi Deepak</b> Women Scientist, Council of Scientific & Industrial Research, Bangalore,Karnataka <i>Topic: Challenges and Opportunities in Rural Mobility and Infrastructure</i>	<b>Session VII</b> <b>Dr. Chidambar B</b> Associate Professor, Department of Mathematical and Computational Sciences, Sri Sathya Sai University for Human Excellence, Muddenahalli, Karnataka <i>Topic: Enhancing Rural Mobility with AI: Intelligent Transport and Logistics</i>	<b>Session VIII</b> <b>Dr. Chidambar B</b> Associate Professor, Department of Mathematical and Computational Sciences, Sri Sathya Sai University for Human Excellence, Muddenahalli, Karnataka <i>Topic: Role of Data Analytics, Drones, and Satellite Imaging in Rural Development</i>
(3) 2.8.25	<b>Session IX</b> <b>Mr.K.Abhijith Saralya</b> L&D Head,Software Engineer,ACL Pvt Limited, Bangalore <i>Topic: Entrepreneurial Opportunities: Startups and Innovations for Smart Villages</i>	<b>Session X</b> <b>Mr.K.Abhijith Saralya</b> L&D Head,Software Engineer,ACL Pvt Limited, Bangalore <i>Topic: Future of AI in Rural Development and Mobility</i>	<b>Session XI</b> <b>Dr.G.N.Vivekananda</b> Associate Professor, SCORE, VIT, Vellore <i>Topic: Building AI-Ready Rural Communities: Education, Skills, and Inclusion</i>	<b>Session XII</b> <b>Dr.G.N.Vivekananda</b> Associate Professor, SCORE,VIT, Vellore <i>Topic: Innovations in AI for Rural Growth and Smart Villages</i>

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**MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE**  
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Madanapalle - 517325, Annamayya Dist., Andhra Pradesh, India



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July 31<sup>st</sup> to 2<sup>nd</sup> August 2025  
Venue : Scaleup Class Room

Department of Computer Science & Engineering (Data Science)

Cordially invite you to the Three-day Seminar On  
**“AI Innovations for Smart Villages and Rural Mobility for Sustainable Growth”**

<b>Chief Patron</b> Dr. N. Vijaya Bhaskar Choudary Secretary & Correspondent	<b>Patron</b> Mrs. Keerthi Nadella Executive Director	<b>Program Chair</b> Dr. C. Yuvaraj Principal	<b>Advisory &amp; Organizing Committee</b>		<b>program coordinator</b> Dr. S. Kusuma HoD/ Dept. of CSE (DS)	<b>program co-coordinator</b> Dr. M. Kiran Kumar Assistant Professor/CSE-DS
			Dr. C. Kamal Basha VP - Administration Dr. P. Ramanathan VP-Academics Dr. R. Kalpana VP - PG Programs	Dr. P. Sivaiah R&D Associate Dean Dr.R.Thulasiram Naidu R&D Advisor		

## Day-Wise Report

### Day 1: 31 July 2025

**Theme:** AI for Rural Agriculture, Healthcare, and Smart-Village Ecosystems

#### Inaugural Session

- The seminar began with the formal inauguration in the presence of faculty, students, and invited guests.
- Dr. S. Kusuma (Coordinator)** welcomed the participants and explained the objectives of the seminar.
- Dr. Ramanathan P (Vice Principal, MITS)** emphasized the role of academic institutions in adopting AI for rural transformation.
- Dr. Sivaiah (Associate Dean, R&D)** stressed the importance of research and interdisciplinary collaboration in sustainable rural growth.
- The seminar was inaugurated by the **Chief Guest, Dr. Bulla Rajesh (Assistant Professor, IIIT Sri City, Tirupati)**, who delivered the keynote talk.

#### Session I: AI for Rural Agriculture — Smart Farming and Precision Techniques

**Speaker:** Dr. Bulla Rajesh

- Highlighted **AI-powered precision agriculture** for increasing productivity.
- Discussed soil sensors, pest detection using ML, and weather-based irrigation systems.

**Key Outcome:** Participants learned how **low-cost AI tools** can improve farmers' income.

#### Session II: AI-Powered Rural Healthcare — Telemedicine and Diagnostics

**Speaker:** Dr. Bulla Rajesh

- Introduced AI-assisted **telemedicine platforms** for remote healthcare.
- Demonstrated ML-based diagnostic applications and health monitoring tools.

**Key Outcome:** Students understood AI's role in **accessible and affordable healthcare**.

### Session III: Role of AI and IoT in Building Smart Village Ecosystems

**Speaker:** Dr. P. C. Prabhu Kumar (Prof & Head, CSE, MTIET)

- Presented the **blueprint of a smart village** integrating renewable energy, water systems, and digital education.

**Key Outcome:** Showed how **IoT devices and AI dashboards** can enable real-time monitoring of rural services.

### Session IV: Case Studies of Successful Smart Villages

**Speaker:** Dr. P. C. Prabhu Kumar

- Shared case studies from **India and abroad** (Finland, South Korea).
- Discussed **community-driven adoption models**.

**Key Outcome:** Emphasized **collaborative governance** for smart-village success.

**Day 1 Summary:** Introduced participants to **agriculture, healthcare, and smart-village ecosystems** with real-world applications of AI.

## Day 2: 1 August 2025

**Theme:** AI in Rural Development, Mobility Challenges, and Analytical Tools

### Session V: Introduction to AI in Rural Development

**Speaker:** Ms. Shruthi Deepak (Women Scientist, CSIR Bangalore)\*\*

- Explained **AI's potential in rural planning, e-governance, and micro-finance**.

**Key Outcome:** Provided a **policy-oriented view** of rural AI adoption.

### Session VI: Challenges and Opportunities in Rural Mobility

**Speaker:** Ms. Shruthi Deepak

- Addressed **transportation bottlenecks** in rural areas.
- Proposed AI-based **route optimization and EV-sharing models**.

**Key Outcome:** Highlighted solutions for **sustainable rural mobility**.

### Session VII: Enhancing Rural Mobility with AI — Intelligent Transport and Logistics

**Speaker:** Dr. Chidambar B (Associate Professor, Sri Sathya Sai University)

- Discussed **AI-enabled intelligent transport systems (ITS)**.
- Showed **last-mile logistics models** for rural supply chains.

**Key Outcome:** Students saw **startup opportunities** in transport AI.

### Session VIII: Role of Data Analytics, Drones & Satellite Imaging

**Speaker:** Dr. Chidambar B

- Demonstrated how **drones and satellites** can help with crop monitoring, disaster management, and infrastructure planning.

**Key Outcome:** Participants were motivated to **use drones and analytics in projects**.

**Day 2 Summary:** Provided exposure to **mobility, data analytics, drones, and infrastructure challenges**, linking AI tools with **real rural needs**.



**Day 3: 2 August 2025**

**Theme:** Entrepreneurship, Future Directions, and Skill Development

**Session IX: Entrepreneurial Opportunities for Smart Villages**

**Speaker:** Mr. K. Abhijith Saralya (Head L&D, ACL Pvt Ltd., Bangalore)

- Encouraged students to create **AI startups for rural problems**.
- Shared examples of rural **ed-tech, agri-tech, and fintech innovations**.

**Key Outcome:** Students were inspired to **convert ideas into startups**.

**Session X: Future of AI in Rural Development and Mobility**

**Speaker:** Mr. K. Abhijith Saralya

- Forecasted **AI + Blockchain** integration for rural supply chains.
- Shared global best practices for **future rural governance models**.

**Key Outcome:** Showed participants the **next decade's trends in rural AI**.

**Session XI: Building AI-Ready Rural Communities — Education & Inclusion**

**Speaker:** Dr. G. N. Vivekananda (Associate Professor, SCORE, VIT Vellore)

- Stressed the importance of **AI literacy and digital training** for students and villagers.

**Key Outcome:** Promoted **skill development as a foundation for rural AI adoption**.

**Session XII & Valedictory**

**Speaker:** Dr. G. N. Vivekananda

- Delivered the closing address on **AI innovations for inclusive rural growth**.
- Certificates were distributed to participants.
- Students and faculty provided positive feedback about the seminar.

**Key Outcome:** The seminar concluded with **commitment to launch pilot AI projects in nearby villages**.

**Day 3 Summary:** Focused on **entrepreneurship, future technologies, and community training** to ensure AI is inclusive and practical.

### Overall Outcomes of the Seminar

- Participants gained **multi-disciplinary knowledge** in agriculture, healthcare, mobility, and entrepreneurship.
- Faculty identified **research directions** for funded projects.
- Students received exposure to **startup opportunities**.
- The seminar promoted **academia-industry-government collaborations**.
- Commitment to **pilot projects in nearby villages** was established.

**The list of participants**

<b>S. No</b>	<b>Name</b>	<b>Institute Name</b>
1	Dr. BALASUBRAMANYAM N	Sri Venkateswara University College of Engineering, Tirupati
2	Mr. VIVEK SHARMA S	SAPTHAGIRI NPS University
3	Dr. K Hemalatha	Madanapalle Institute of Technology & Science
4	Mr. PRATAP M S	SAPTHAGIRI NPS University Bangalore
5	Mr. ANANT SHANKAR ELLAPALLI	Sri Venkateswara College of Engineering
6	Mrs. Sheeja R	R.M.K. Engineering College
7	Mr. Bhaskar Buggavaram	Madanapalle institute of Technology and Science
8	Mrs. Swetha T	S J C Institute of Technology
9	Mr. SHIVA KUMAR R NAIK	REVA UNIVERSITY
10	Mrs. G. vasundhara devi	Madanapalle Institute of Technology and Science
11	Dr. P Sivaiah	Madanapalle Institute of Technology & Science
12	Mrs. R PRIYANKA PRAMILA	RMK ENGINEERING COLLEGE
13	Mrs. Jeevitha S R	Nagarjuna college of engineering and technology
14	Mrs. G B RENUKA	MITS
15	Mrs. Usha Rayala	MITS Madanapalle
16	Miss Prathibha B N	Nagarjuna College of Engineering and Technology
17	Miss Shivalila	Nagarjuna college of Engineering and Technology
18	Dr. PONMALAR	R.M.K. Engineering College
19	Mrs. Kavitha S	Nagarjuna College of Engineering
20	Mrs. Mehar Afroz	NAGARJUNA COLLEGE OF ENGINEERING AND TECHNOLOGY
21	Dr. Rayani Praveen Kumar	Madanapalle Institute of Technology & Science
22	Dr. Gunji Sreenivasulu	Madanapalle Institute of Technology & Science
23	Mr. Durgacharan Kondabathula	Madanapalle Institute of Technology and Science
24	Dr. Rashmi Karchi	Nagarjuna College of Engineering and Technology, Bengaluru
25	Mr. EERLA RAJESH	Madanapalle Institute of Technology & Science
26	Mrs. Roopa R	Madanapalle Institute of Technology & Science
27	Dr. Erapaneni Gayatri	Madanapalle Institute of Technology and Sciences
28	Mr. BSH Shayeez Ahamed	Madanapalle Institute of Technology b& Sceience
29	Mr. Pavankumar Naik	Sapthagiri NPS University
30	Mrs. Vinutha K	SJBIT
31	Dr. Raghavendra Patil G E	Nagarjuna College of Engineering and Technology

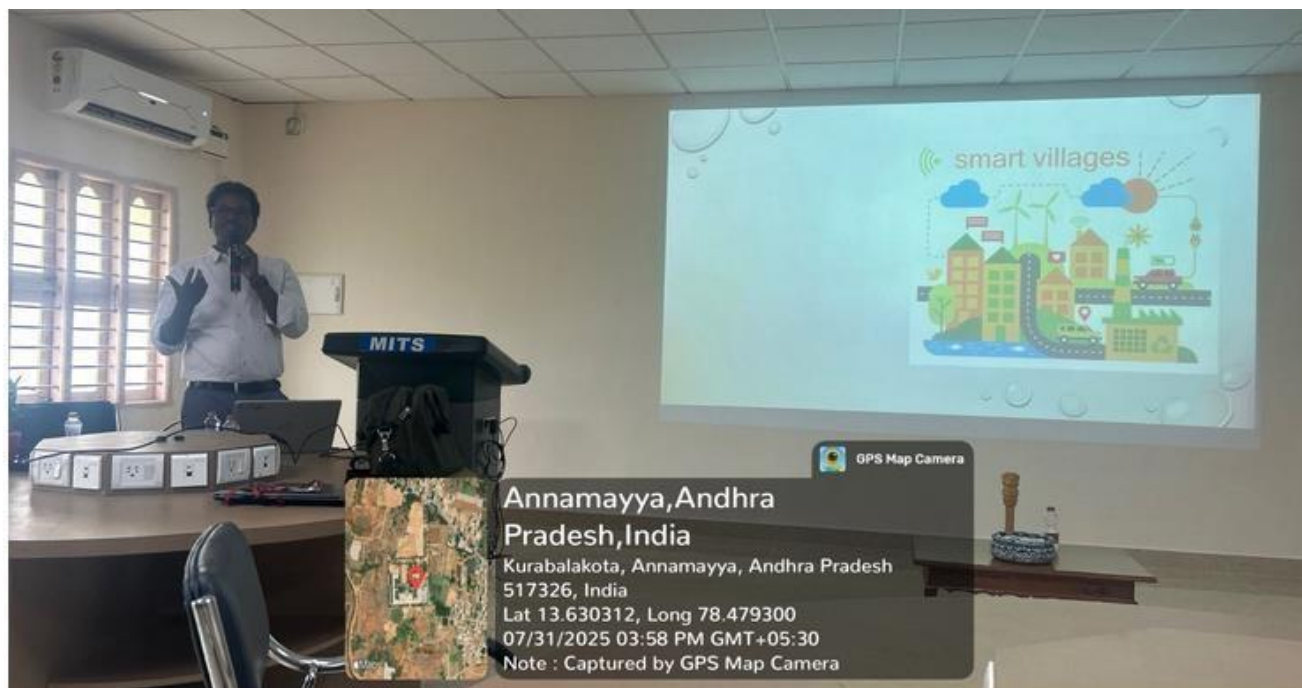
32	Dr. SUDHAKARA REDDY M	Nagarjuna College of Engineering & Technology
33	Miss Gayathri V	S J C I T
34	Dr. Shwetha MS	JAIN (Deemed-to-be University)
35	Mr. Neelam Saikiran	Madanapalle Institute of Technology & Science
36	Mrs. Koushika K H	Nagarjuna College of Engineering and Technology
37	Mrs. Swathi N	NAGARJUNA COLLEGE OF ENGINEERING AND TECHNOLOGY
38	Mr. Chintati Veeranagaiah	vit university vellore
39	Mr. Narasapuram Naveen Kumar	Annamacharya institute of technology and sciences
40	Miss Navya Sree Rallapalli	Annamacharya Institute of technology and sciences, Kadapa
41	Mrs. K.Swasthika	AITS
42	Miss Bonam Hema	Annamacharya Institute of Technology and Sciences, Kadapa
43	Mrs. Sunitha Dondapati	Annamacharya institute of Technology and Scienes
44	Mr. KAVVAM CHANDRASEKHAR REDDY	Annamacharya Institute of Technology and Sciences
45	Miss Mylapalli Taruni	Annamacharya institute of technology and science
46	Mr. GAUTAM KATAMALA	Annamacharya Institute of Technology and Sciences
47	Mr. k Amarnadh reddy	Annamacharya institute of technology and science
48	Mr. Narendra N	AITS
49	Miss M. Manisha Sankar	Annamacharya Institute Of Technology and Sciences, Kadapa
50	Dr. BABA FAKRUDDIN ALI B H	
51	Mrs. T Vishnupriya	Viswam Engineering College
52	Mr. D ASHFAQ PHATAN	Viswam Engineering College
53	Mr. Shaik Thangadapalli Baba Waris	Annamacharya Institute of Technology and sciences
54	Miss Narapureddy Sanjivini Manogna	Annamacharya institute of technology and sciences autonomous kadapa
55	Dr. Rajkumar	Nagarjuna college of engineering and technology
56	Miss Nagur uzma	Annamacharya Institute of Technology and sciences,kadapa
57	Miss P SAI JAHNAVI	Viswam engineering college
58	Mrs. Cheruvu Sonia Anusha	Viswam engeneering college
59	Mrs. cheruvu Ayesha	Viswam engineering college
60	Mr. G Mallikarjuna	Annamacharya Institute of Technology and sciences,kadapa
61	Mrs. Shilpashree S	SJB Institute of Technology
62	Dr. SHILPASHREE S	Nagarjuna College of Engineering and Technology, Bengaluru



Day 1 Session 1 & 2 (31<sup>st</sup> July 2025)



Day 1 Session 3 & 4 (1<sup>st</sup> August 2025)





Day 2 Session 1 & 2 (1<sup>st</sup> August 2025)



Day 2 Session 3 & 4 (1<sup>st</sup> August 2025)





**Day 3 Session 1 & 2 (2<sup>nd</sup> August 2025)**



**Day 3 Session 3 & 4 (2<sup>nd</sup> August 2025)**

