



Dr. AMBEDKAR INSTITUTE OF TECHNOLOGY, BENGALURU-56

(An Autonomous Institution, Affiliated to VTU, Approved by AICTE, Accredited by NAAC with A+ grade)



Technical Session- Report



Dr. Ambedkar Institute of Technology, Bengaluru-56
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WORKSHOP ON

BUILDING AI AGENTS

WITH LOCAL SMALL LANGUAGE MODELS

Learn. Build. Innovate.
Create intelligent solutions with the power of Local LLMs.



RESOURCE PERSON



Dr. Bharathi S
Associate Dean,
School of Computer Science and Applications
S-Vyasa University
Bengaluru



DATE
15-07-2026
(Tuesday)



TIME
10:00 AM –
01:00 PM



VENUE
Seminar Hall,
Dr. AIT,
Bengaluru

KEY TAKEAWAYS

- ✓ Understand the fundamentals of AI Agents
- ✓ Explore Local Small Language Models (LLMs)
- ✓ Build, test and deploy AI Agents
- ✓ Hands-on insights and real-world applications
- ✓ Best practices and tips for development



WHO CAN ATTEND?

- MCA / BCA / B.Tech Students
- Faculty Members
- Researchers & Developers
- AI Enthusiasts



**Build the future. Build AI-powered solutions.
Start with Local LLMs.**

ORGANISED BY

Master of Computer Applications Programme
Dr. Ambedkar Institute of Technology, Bengaluru

The MCA Programme of Dr. Ambedkar Institute of Technology, Bengaluru, organized a workshop titled “**Building AI Agents with Local Small Language Models**” on **15th July 2026 (Tuesday)**. The event aimed to provide students, faculty, and researchers with practical insights into the design and deployment of AI agents using local LLMs.

Resource Person: The session was conducted by Dr. Bharathi S, Associate Dean, School of Computer Science and Applications, S-Vyasa University, Bengaluru. With her expertise in artificial intelligence and applied computing, she guided participants through both theoretical foundations and hands-on practices.

HOD-MCA, Dr. L. Manjunatha Rao welcomed the Resource person, staff and students for the technical seminar and introduced the chief guest to the audience.

Objectives:

- To introduce MCA students to the **fundamentals of AI agents** and their role in autonomous decision-making.
- To provide insights into the **advantages and applications of Local Small Language Models (LLMs)** compared to large-scale cloud-based models.
- To offer **hands-on exposure** in building, testing, and deploying AI agents for practical use cases.
- To highlight **real-world applications** of AI agents across domains such as education, healthcare, and industry.
- To share **best practices, ethical considerations, and development tips** for creating efficient and reliable AI-powered solutions.
- To encourage **innovation and problem-solving skills** among MCA students, preparing them for academic projects and professional careers in AI.



Key highlights of the session include:

Fundamentals of AI Agents

The workshop began with an introduction to **AI agents**, explaining their role as autonomous systems capable of perceiving environments, making decisions, and performing tasks. Dr. Bharathi highlighted how agents differ from traditional software programs by incorporating adaptability, reasoning, and learning capabilities.

Local Small Language Models (LLMs)

A detailed discussion was held on **Local Small Language Models**, emphasizing their efficiency, privacy, and cost-effectiveness compared to large-scale cloud-based models. Participants learned how local LLMs can be deployed on personal systems or institutional servers, enabling customized solutions without dependency on external platforms.

Building, Testing, and Deployment

The practical segment focused on the **development lifecycle of AI agents**. Students were guided through steps of designing agent workflows, integrating LLMs, testing for accuracy, and deploying solutions in real-world scenarios. The importance of iterative testing and debugging was stressed to ensure reliability.

Real-world Applications

Dr. Bharathi illustrated **applications of AI agents** in domains such as education, healthcare, customer service, and research. Case studies demonstrated how local LLMs can be leveraged for chatbots,

automated assistants, and intelligent decision-making systems, inspiring students to think of innovative projects.



Outcome:

Participants gained:

- A clear understanding of AI agent architecture.
- Knowledge of how local LLMs differ from large-scale cloud-based models.
- Practical skills in developing and deploying AI-powered solutions.
- Insights into real-world applications and industry relevance.
- Awareness of ethical and efficient practices in AI development.

The session was concluded with question and answers followed by vote of thanks to the speaker, HOD-MCA, faculties, staff and students.

Coordinated by

Mrs. B. R. Shobha Rani, Associate Professor

Dr. Bharathi. S, Professor