



MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE

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A Report on One-day webinar on "Technology & AI for Startups"
Organized by Department of Computer Science & Engineering-Data Science
In Association with Entrepreneurship Development Cell (EDC)
on 24.06.2026

MITS
MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE
(Deemed to be University under section 3 of UGC Act, 1956)
Madanapalle-517325, Annamayya Dist., Andhra Pradesh, India.

NAAC GRADE A+

Department of Computer Science and Engineering (Data Science)
In Association with
Entrepreneurship Development Cell
Organizes
Webinar on Technology & AI for Startups
Mr. Venkat Dugasani Date: 24-06-2026
Application Engineer Time: 10:00 AM to 12:00 PM
San Jose, California, United States Venue: Online

Chief Patron Dr. N. Vijaya Bhaskar Choudary Founder & Chancellor	Patrons Shri. N. Dwarakanath Pro Chancellor	Program Chair Dr. C. Yuvaraj Vice Chancellor (I/c)	Co-Chairs Dr. D. Pradeep Kumar Registrar (I/c) Dr. P. Ramanathan Principal
Convener Dr. S. Kusuma Asst. Professor & Head CSD	EDC coordinator Dr. Kosaraju Sireesha Asst. Professor	EDC Dept coordinator Mr. K. Durga Charan Asst. Professor	

Report Submitted by: Mr. K. Durga Charan, Assistant Professor, Department of CSE (Data Science).

Resource Person Details: Mr. Venkat Dugasani, Application Engineer, ACL Digital.

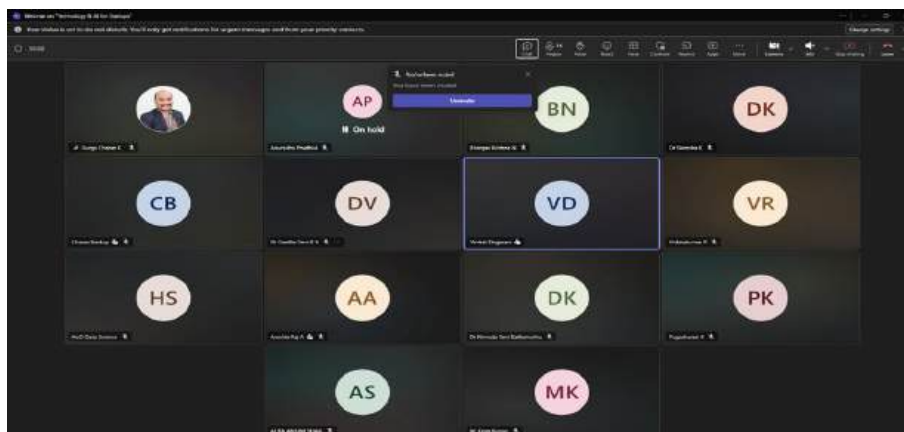
Time: 10:00 AM to 12:00 PM IST

Mode of Conduct: Online / Virtual Platform

Target Audience: Engineering Students, Budding Entrepreneurs, and Faculty Members

Resource Person Profile

- Name: Mr. Venkat Dugasani
- Designation: Application Engineer
- Organization: ACL Digital
- Location: San Jose, California, United States (Silicon Valley)
- Academic Background: B.E. (Vasavi College of Engineering), M.S. in Computer Science and Engineering (Santa Clara University)
- Core Expertise: Linux System Programming, Operating Systems, Networking, AWS Cloud Architecture, and Intelligent Software Solutions.



Executive Summary / Objectives of the Event

The main objectives of this institutional webinar aligned with the NAAC/NBA framework for promoting innovation, self-employment, and technology-driven student competencies were:

- To expose students to real-world industrial shifts from digital transformation to physical AI applications.
- To bridge the geographical and knowledge gap between Silicon Valley startup trends and student innovators at MITS.
- To analyze the economic feasibility of using Generative AI, Open-Source ecosystems, and RAG frameworks for establishing low-cost tech startups.

Detailed Session Proceedings

Inaugural Session & Welcome Address

The event began promptly at 10:00 AM with an introduction by the event host, Mr. K. Durga Charan.

- **Opening Remarks:** Dr. S. Kusuma (Head, CSD) highlighted the department's commitment to pushing historical milestones in technical innovation and excellence.
- **EDC Contextualization:** Dr. Kosaraju Sireesha laid down the core objectives of the Entrepreneurship Development Cell, encouraging a shift in students' mindsets from being job seekers to job creators.

Keynote Presentation Insights

Mr. Venkat Dugasani delivered an intensive technical presentation mapping out how modern artificial intelligence acts as a foundational infrastructure for early-stage companies. Key technical themes covered include:

1. **The Paradigm Shift (Software AI \rightarrow Physical AI):** Explanation of how AI is migrating from experimental conversational interfaces to active physical endpoints such as edge-computed devices, advanced drones, robotics, and autonomous vehicles.
2. **The AI Industry Framework:** The speaker mapped out the current building blocks available for startups, classifying options into Generative AI/LLMs, Computer Vision, Autonomous Systems, and Edge AI. He highlighted that startups can profitably build solutions at every layer.
3. **Market Triggers & Macro Signals:** A brief overview of global data showing market validation— notably the presence of 2.35 lakh+ recognized startups in India and the massive scale-up of corporate AI venture funding (\$226B raised globally in 2025).
4. **Cost Optimization Metrics:** A deep dive into the collapsing economic barriers for builders. The speaker pointed out the \$280 \times \$ drop in text inference costs and a 30% annual hardware decline, emphasizing that the modern challenge has shifted from model creation to target-domain workflow distribution.
5. **Practical Multi-Tier Implementations:** Technical illustrations detailing how to implement specialized corporate support agents, coding assistants, and internal document Q&A tools using Large Language Models.
6. **RAG & AI Agent Engineering:** Explanations covering the mechanics of Retrieval-Augmented Generation (RAG) to eradicate language model hallucinations by feeding contextualized enterprise data pipelines directly into execution boundaries.
7. **Open-Source Architectural Ecosystems:** Providing a structured pathway for students to learn, prototype, customize, and scale tools using free framework layers such as Qwen/Llama models, Ollama runtime interfaces, vLLM servers, LangChain/CrewAI orchestration modules, and vector engines like Qdrant or Chroma.

Valedictory Session

The interactive presentation was followed by a vibrant Q&A session where students interacted with the Silicon Valley expert on tech architecture selection. The webinar concluded successfully with an official Vote of Thanks delivered by Mr. K. Durga Charan, recognizing the support of the core management committee, technical administrators, and active participants.

Event Outcomes

The Entrepreneurship Development Webinar on "Technology & AI for Startups" successfully achieved its core goals, yielding several key institutional and student-centric outcomes:

- **Silicon Valley Ecosystem Exposure:** A total of 185 participants (including engineering students and faculty members) gained direct exposure to advanced industry trends. They bridged the gap between academic theory and real-world implementation strategies used in global innovation hubs.
- **Technological Shift Awareness:** Students gained a practical understanding of the structural migration from software conversational interfaces to Physical AI applications (such as robotics, drones, and edge-computed devices).
- **Cost-Effective Startup Prototyping Pathways:** Participants were equipped with a structured blueprint to design and scale low-cost tech startups. This was achieved by leveraging open-source foundation layers, including:
 - **Models & Runtimes:** Qwen, Llama, and Ollama.
 - **Orchestration Modules:** LangChain and CrewAI.
 - **Vector Database Engines:** Qdrant and Chroma.
- **Mitigation of AI Implementation Barriers:** Through deep dives into Retrieval-Augmented Generation (RAG) frameworks, students learned how to build enterprise-grade data pipelines that eliminate model hallucinations, paving the way for viable, production-ready student projects.
- **Mindset Transformation:** In alignment with the NAAC/NBA framework, the session successfully fostered a cultural shift within the Department of CSE (Data Science), inspiring budding innovators to transition from traditional job seekers into technology-driven job creators.

Feedback Analysis & Impact Metrics



Metric Evaluated	Achievement / Feedback Level	Institutional Impact
Participant Attendance	25+ Registered Attendees	High engagement across multiple student batches and department lines.
Technical Relevance	94% Excellent / Very Good	Validated the student appetite for active, deployment-focused AI engineering content over general theory.
Resource Person Rating	96% Highly Satisfactory	Highlighted the success of bringing international industry practitioners into the MITS ecosystem.