

5th International Congress on AI and Machine Learning

December 09-10, 2024 | Dubai, UAE (Hybrid Event)

Unleashing the potential of generative AI and intelligent automation across industries

Mahaboobsubani Shaik

Technical Architect, USA

Generative AI has emerged as a revolutionary force in the field of artificial intelligence, enabling machines to autonomously produce content such as text, images, audio, and executable code. Built on cutting-edge frameworks like Generative Adversarial Networks (GANs), variational autoencoders (VAEs), and transformer architectures, it emulates human creativity, unlocking unprecedented opportunities for innovation.

When integrated with Intelligent Automation (IA)—the convergence of AI, machine learning, and robotic process automation (RPA)—Generative AI transcends traditional boundaries of automation, automating not only routine but also creative and complex tasks. This synergy enables groundbreaking applications such as drafting detailed reports, designing dynamic marketing campaigns, and generating custom digital assets.

Key industry applications include:

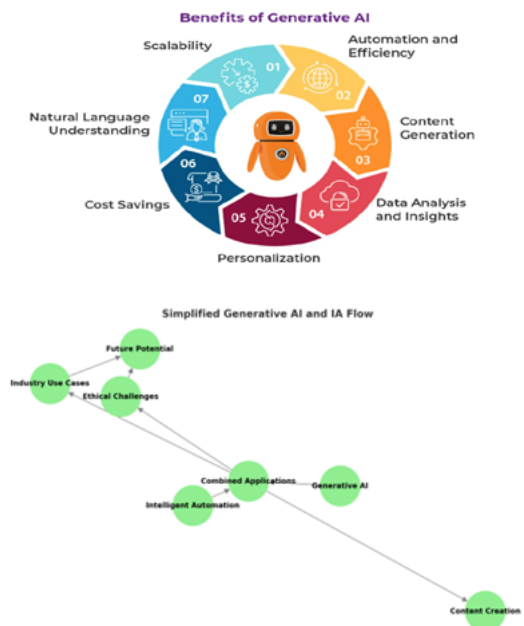
- **Healthcare:** AI-driven synthesis of medical images for diagnostics, accelerated drug discovery, and personalized treatment planning, complemented by workflow optimization in patient data management.
- **Media and Entertainment:** Streamlining production with AI-generated CGI, realistic virtual environments, and customized content creation.
- **Education:** Transforming learning through personalized materials, AI-powered tutors, and immersive virtual experiences.
- **Finance and Retail:** Enhancing fraud detection, financial forecasting, and customer interactions through automated yet adaptive AI solutions.

Despite its transformative potential, Generative AI and IA face challenges such as ethical concerns, data privacy issues, and risks associated with misuse, such as Deepfakes. This paper discusses strategies for ensuring ethical deployment, transparency, and human-machine collaboration to mitigate these risks effectively.

As Generative AI and Intelligent Automation converge, they herald a future of unparalleled creativity and efficiency, setting the stage for self-learning systems and autonomous creative assistants that redefine productivity and innovation across industries.

This presentation delves into the technical foundations, real-world applications, and ethical considerations of this powerful combination, offering a forward-looking perspective on its potential to shape the future of AI-driven innovation.

Image



Biography

Mahaboobsubani Shaik is a visionary Senior Technical Architect with over 18 years of experience in pioneering software solutions, intelligent automation, and AI-driven technologies across high-impact industries such as finance, hospitality, and telecom. Specializing in a diverse tech stack that includes C#, ASP.NET Core, Angular, Python, Blue Prism, and

5th International Congress on AI and Machine Learning

December 09-10, 2024 | Dubai, UAE (Hybrid Event)

MLNET, Mahaboobsubani has been at the forefront of transforming complex business challenges into seamless, scalable solutions. He has led groundbreaking initiatives at Hilton Worldwide and Accenture, crafting advanced automation systems and architecting cutting-edge applications that drive operational efficiency and unlock significant business value. With a passion for innovation, Mahaboobsubani has shaped the global landscape of intelligent automation, delivering state-of-the-art bots and systems deployed across multiple countries. His leadership has

empowered cross-functional teams to successfully integrate emerging technologies such as Microsoft Copilot Pro, OpenAI's GPT models, and AWS Bedrock, achieving new heights in process automation and customer engagement. Through his deep technical expertise and forward-thinking approach, Mahaboobsubani continues to redefine the future of enterprise technology, enabling organizations to stay ahead of the curve and deliver exceptional results in a rapidly evolving digital world.