

Presenter Name: Dileep Kumar Pandiya

Talk Title: AI-Driven Privacy Enhancements in Microservices Architectures

Presenter Short Bio: Dileep Kumar Pandiya is a Principal Engineer with over 18 years of experience in the IT software industry, specializing in digital transformation through technologies like Microservices, AI, and APIs. He has led impactful projects for top-tier corporations such as ZoomInfo, Wayfair, Walmart, and IBM. Dileep has a robust educational background with an Executive MBA from Symbiosis International University and a Bachelor's in Engineering in Information Technology from the University of Rajasthan. He is a published author with numerous research papers on AI and microservices and has been recognized with prestigious awards, including the Information Technology – Technical Professional of the Year by the TITAN Business Awards. Dileep is also a member of the Harvard Business Review Advisory Council and the IEEE Senior Member grade, showcasing his sustained contributions and leadership in the field.

Short Talk Abstract: As data privacy concerns continue to rise globally, integrating artificial intelligence (AI) with microservices architectures offers innovative solutions to enhance data protection. This presentation explores advanced AI techniques for safeguarding data privacy within microservices, demonstrating their practical applications and benefits through real-world case studies. Key topics include the implementation of differential privacy, federated learning, and AI-driven data anonymization within microservices environments. Attendees will gain insights into integrating AI-driven privacy solutions into existing architectures, real-time monitoring for privacy anomalies, and automated enforcement of privacy policies to ensure compliance with regulations like GDPR and CCPA. The session aims to provide a comprehensive understanding of AI-driven privacy mechanisms, their implementation, and the significant impact they can have on maintaining robust data privacy in modern distributed systems.