

# **Navigating the Digital Frontier: Cybersecurity and Business Leadership in the Era of Automation, AI, and Robotics**

Naresh Adhikari\*  
\*Slippery Rock University,  
\*naresh.adhikari@sru.edu

## **ABSTRACT**

This is an era where the digital landscape is evolving at an unprecedented pace. Business leaders are confronted with dual challenges of AI and Cybersecurity. Integrating AI, Automation, and Robotics in an industry enhances operational efficiency in virtually all industry processes. However, it also produces an intricate web of interconnected devices and systems that mandates robust cybersecurity measures. Specifically, it demands a strategic roadmap to harness the benefits of AI, automation, and robotics while safeguarding enterprises against potential cybersecurity incidents. We need to urgently invest in grooming today's leaders into more prudent, vigilant, and proactive business leaders who can drive businesses by maximizing cybersecurity and minimizing costs. In this session, we discuss the transformative era of Automation, AI, and Robotics, highlight the unprecedented opportunities, and cast light on the cybersecurity challenges relevant to small-to-intermediate businesses.

## **BIOGRAPHY**

Naresh Adhikari is an assistant professor at the Department of Computer Science. He received his doctorate in Computer Science from Mississippi State University, majoring in Trustworthy Computation in 2020. His areas of expertise are blockchain networks, trustworthy computation, trustworthy computational geometry and geographic information services (GIS), cybersecurity, Internet of Things (IoTs), among others. Dr. Adhikari holds a bachelor's degree in software engineering from Pokhara University, Nepal. He has over three years of industry experience as a database administrator and an enterprise Java application engineer. His current research interests include blockchain technology and trustworthy GIS applications.