



# Leveraging AI in Automotive Cybersecurity

Leveraging AI in Automotive Cybersecurity: Insights from ISO/SAE 21434

TITLE: AI in Automotive Cybersecurity

DATE: Friday 08 Dec. 2023

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## > LECTURE HIGHLIGHTS

The advent of Artificial Intelligence (AI) has revolutionized various industries, and the automotive sector is no exception. This speech delves into the critical role of AI in enhancing automotive cybersecurity, particularly in the context of the ISO/SAE 21434 standard. ISO/SAE 21434, a comprehensive framework for cybersecurity in the automotive industry, outlines key requirements and guidelines for ensuring the cyber resilience of vehicles.

In this speech, we explore how AI can significantly contribute to meeting and surpassing these requirements. The discussion includes AI's capability in predictive analytics, which allows for the anticipation and mitigation of potential cyber threats. We also examine AI's role in continuous monitoring and real-time response, ensuring that automotive systems remain secure even in the face of evolving cyber threats.

## > THE SPEAKER

Armin Babaei is a seasoned cybersecurity manager and expert with over ten years of experience in the automotive and automation industries, complemented by a strong academic background. His PhD research, centered on machine learning attacks on IoT devices, showcases his deep understanding of advanced cybersecurity methodologies and emerging threats in interconnected environments. As a certified AWS Cloud Architect, Babaei brings a comprehensive skill set in cloud infrastructure and security, further enriching his expertise in developing robust cybersecurity strategies and solutions for complex, technology-driven ecosystems.



Babaei's unique combination of practical industry experience, academic rigor, and cloud architecture proficiency positions him exceptionally well to address and mitigate sophisticated cybersecurity challenges.

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## > WHO SHOULD ATTEND

This is a public lecture, all IEEE members and those who are interested in learning about analytics and applications are welcome to attend this event.