USING AI FOR IOT CYBERSECURITY - NIMBUS PARTNERS WITH CYBERLINK TO DEVELOP PROOF-OF-CONCEPT

MTU
Ollscoil Teicneolaíochta na Mumhan
Munster Technological University

cyberlink

BACKGROUND

Cyberlink Security Ltd provides products, services, and knowledge that protect the Cybersecurity interests of its customers. Offering solutions such as Penetration Testing, a simulated hacker attack that identifies and rates the vulnerabilities in systems, Cyberlink Security also offers both technical and non-technical Cybersecurity training courses to fit specific requirements. The company operates internationally from its offices at Ludgate Hub in West Cork.

THE NEED

Cyberlink Security aims to develop state-of-the-art AI-driven applications for protecting IoT networks from malware attacks. Given the lack of security measures around IoT networks and an increasing number of online threats, the challenge is to design a smart cybersecurity platform that can adapt to changing threats in a fault-tolerant, private, and secure manner.

THE SOLUTION

Cyberlink Security partnered with the Nimbus Research Centre which is at the forefront of cyber-physical systems (CPS) and Internet of Things (IoT) research, innovation, and learning. The Nimbus team developed software to incorporate AI into a novel anomaly detection system using state-of-the-art machine learning algorithms. The research conducted by Nimbus identified appropriate models, metrics, and privacy-preservation strategies. Nimbus also assisted in identifying appropriate funding opportunities for the company as well as creating technical and concise grant proposals.

BENEFITS OF THE ENGAGEMENT

The collaboration with Nimbus has contributed to developing a Proof-Of-Concept for Cyberlink Security. Nimbus and Cyberlink Security have developed an honest, open relationship laying a solid foundation for any future collaborations. The knowledge and expertise of the Nimbus team enabled them to research a complex subject, select the best model and solution from that research, leading to the development of the initial version of the product.

"In Nimbus we have found a partner that can help us research new products and services that enable us to better protect the interests of our clients. Together with Nimbus we found the right balance between academic research and pragmatism that makes it possible to turn our ideas, through research into real products and services. The flexibility and cooperation with Nimbus has proven to be an essential part of this process."

- Arthur Donkers Managing Director, Cyberlink Security Ltd.

Contact us to connect your Enterprise with MTU. Email us at extended.campusCork@mtu.ie to discuss a collaboration to suit your needs!