

An Artificial Intelligence–Based Cybersecurity System

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Ensuring security and monitoring in modern network infrastructure is one of the biggest challenges today. It has already become the norm for a large number of devices to be connected to a network simultaneously, which results in massive amounts of data whose manual monitoring and filtering is practically impossible.

This project aims to address exactly this problem by using a locally hosted artificial intelligence system running in a Docker environment. The system will utilize security tools to collect the necessary logs and information, which will then be delivered to the person responsible for security in a filtered and structured form. The security system operates as an auxiliary tool rather than an autonomous decision-making system. This type of integration provides an additional layer of security without compromising efficiency.

The expected outcome of the project is the creation of an AI-powered tool hosted within the internal network that simplifies monitoring of high-traffic networks for network administrators and cybersecurity specialists, delivering only the most relevant information directly to them.