**Abstract: Our Approach in Enhancing Existing Cyber Threat Intelligence Technology**

In the evolving cybersecurity landscape, traditional threat intelligence platforms often rely on passive data collection from known sources, which delays the detection of emerging threats. Our **AI-Powered Cyber Threat Intelligence Platform** enhances existing technologies by integrating advanced **machine learning models**, **data collection from unconventional sources**, and **predictive analytics**.

Additionally, we leverage **natural language processing (NLP)**, specifically **transformer-based models** like BERT.

A unique feature of our approach is **predictive threat analytics** using **time-series models** such as ARIMA and LSTM, which forecast potential threats based on historical attack patterns. This allows organizations to anticipate future risks, providing valuable time for mitigation strategies.

The platform also implements **AI-driven prioritization and risk scoring**, automatically ranking threats based on their potential impact on the organization. The **interactive dashboard** visualizes these threats in real time, offering an intuitive representation of attack patterns and suggested mitigations.

By combining **real-time threat intelligence**, **AI-driven analysis**, and **predictive capabilities**, our platform offers a proactive, scalable, and precise cybersecurity solution that surpasses traditional threat intelligence platforms.