

CyberPeace Institute accelerator program - Final Insights Report

This report delves into the significant strides CyberPeace Institute has made in incorporating machine learning (ML) in the context of the accelerator program, but also beyond that. It highlights the insights gained, the strategies adopted, and the anticipated impact of ML integration, with a specific focus on promoting human rights and aiding other nonprofits.

Insights gained

- Integration of ML in Analyst Workflows: We have observed the work efficiency and accuracy improvements that ML can bring to our analysts' work and identified possible avenues we can explore to further harness the power of ML automations for our work.
- Future Role of ML in Analysis: We acknowledge the growing importance of ML in analytical work, foreseeing it will constitute a pivotal tool in future developments.
- Automation: A key insight is the potential for automating routine tasks, allowing our team to focus more on triaging the extracted information by asking questions on the documents, through use of chatGPT or other LLM technologies.
- Open-Sourcing and Documentation: We recognize the potential for broader impact through open-sourcing and transparent documentation of our AI usage.
- Responsible and Ethical AI Strategy: Establishing a robust strategy for ethical AI usage is paramount, ensuring our adherence to responsible practices.

Utilizing our insights to promote human rights

Based on the aforementioned insights we want to advocate for responsible use of AI. That is something we plan on doing by:

- Sharing [our Journey Toward Responsible Use of AI](#) with the world.
- Creating Open-Source work such as the [CyberSecurity Knowledge Graph Model](#), which we aspire to use in cyber analysis with an emphasis on analyzing physical ramifications of cyber attacks on human lives.

Future Impact on the Institute

- Our engagement in the accelerator program has helped us build our competence with using AI tools and has bolstered our confidence in utilizing AI-driven automation for future projects.
- We have also developed familiarity with evaluating, deploying and using Open-Source ML Models. This is mostly through use of [HuggingFace](#), where we also deploy our [Open-Source work](#).

Benefits to Other Nonprofits

- Through our Open-Source work, articles on AI/ML related topics and our policy for responsible use of AI, we hope to guide other NGOs facing similar data-related challenges to us.
- Furthermore our plans include allowing volunteers in the CyberPeace Builders program to access our AI tools for supporting the beneficiary Nonprofits. This is a free service for any Nonprofit NGO that is in need of cybersecurity related assistance.
- Finally, we are considering making our machine learning pipeline and other ML related tools available to partner NGOs with similar operational scopes, assisting them in data collection and cyber analysis.

Conclusion

CyberPeace Institute's journey in integrating ML into its operations not only enhances our analytical capabilities, but also sets a precedent for responsible and ethical AI usage. By sharing our tools and practices, we aim to foster a community-wide adoption of AI for the greater good, particularly in the realms of human rights and cybersecurity.