

Project Constraint Essay

Team: MalAI

Members:

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Topical areas selected:

- Ethical
- Security
- Legal

Essay:

MalAI is a tool that is utilized to reverse engineer executable files (programs) to assembly and c/c++ code. Therefore, MalAI allows users to have access to code that was not written by them which could potentially cause significant harm to companies/program owners. Consequently, this issue is mitigated by not allowing copyrighted material to be reverse engineered by looking for copyright signs in the reverse engineered program, if any signs were found, users will not gain any sort of access to the reverse engineered code.

Additionally, MalAI presents some security concerns due to the nature of handling malware. If not handled with care, the malware that is being inspected could spread to the user's machine. Thus, while the tool should allow for easy inspection, any unsafe actions that would expose the host computer should be restricted.

As explained above in the ethical topical area, MalAI could open the door for many copyright issues. For example, if not constrained, users could potentially gain access to code that is close to the reverse engineered program; therefore, gaining access to code that is considered intellectual property which is illegal and raises a lot of concern. However, this will be avoided via the solution explained above in the ethical topical area. Furthermore, from a building perspective, all materials that have been used or are intended to be used are either written by the team or considered open source and the team utilized it; therefore, there are not any illegal actions committed nor will be committed during the process of building MalAI.