**Aim**

Essentially, the aim of this project is to disarm viruses forever. The method is to create a self learning program that is capable of analysing and adapting to virus behaviour and mutations to update itself. This would remove the need for human interaction, and would instead let that manpower be focused elsewhere. Should the Artificial Intelligence (AI) be unable to keep up with virus evolutions, human interaction may be necessary to assist the machine learning program in speeding up. The machine itself also needs to be capable of defending not only the system, but itself from attacks. This means that the AI not only needs to be able to improve to defend the computer or server, but also itself, which may lead to complications when both are attacked simultaneously.

While the ultimate goal is to have a machine learning program that is fully self sufficient, if it happens to be too slow to keep up it may require a human behind it to ensure everything runs smoothly.

The overall progression of achieving this aim is simple: create a working prototype of a database that is equipped with a self-learning anti-virus. Although the idea is quite simple, the execution of such an idea will potentially be very complicated. It will need to be achieved by a set deadline, so in order to minimize the likelihood of encountering any problems that can consume time, it would be wise to establish micro-aims. These micro-aims would act as stepping stones, bringing us closer to the finished prototype step by step. They are listed below.

**Micro-aims:**

* Construct a timeline
* Contact experts
* Obtain a database
* Obtain virus data

**Construct a Timeline**

Perhaps the simplest of all the micro-aims. Given there is a set deadline for us to have our project completed by, said timeline would play a vital role in helping us manage, organize, and prioritize our tasks. This kind of constructive thinking will provide us with the necessary tools to work as efficiently and productively as possible, also helping us in staying on track with our overall goal.

**Contact Experts**

Making an effort to contact experts in the fields of anti-virus technology and Machine Learning technology could result in huge pay-offs. Through interviews and consultations, they would likely be able to provide us with valuable insights into their fields and offer guidance along the way. Such assistance would greatly aid in us maintaining a consistent rate of progress.

**Obtain a Database**

After a lot of initial research and planning, determining how to best obtain our own database should be relatively straight forward. Ideally, we would be well informed on the topic of databases by this point. We would also potentially have the assistance and advice of experts to help guide us in this stage of the project.

**Obtain Virus Data**

Obtaining such data could prove to be tricky. We would definitely need to get in touch with the right people to obtain that kind of information. Considering that there are a lot of unknowns revolving around this micro-aim, it could require extensive planning. Nevertheless, such data is essential in the completion of our working prototype.