**Objective of the Present Work**

Following are the research objectives for the proposed work.

1. To perform a detailed review on the malware of assorted types
2. To study the vulnerabilities and security issues associated with the malware in the network environment
3. To apply deep learning techniques to take the malware detection to the next level.
4. To take the scalability advantages of deep learning compared to traditional machine learning algorithms for malware predictions.
5. To recommend a novel approach for the malware prediction and penetration aspects
6. To Develop a unique network for training the model for malware predictions using the benchmark datasets
7. To implement the proposed model using effective strategies on multiple parameters
   a. Execution Time
   b. Complexity
   c. Accuracy
   d. Performance