**Summary**

Summarize the motivation, the proposed general research method, and research question of the to-be-reviewed report.

Using ML & DL to be able to filter malicious websites. Feature Engineering is creating new features from existing ones to improve the model’s performance.

Detecting malicious websites using the URL’s and content.

Combining conventional feature engineering techniques with ML/DL algorithms

There has been an increase in Cyber-attacks due to an increased use of the internet. An example is the manipulation of URLs also called malicious URLs. It has led to the stealing of personal data and economic loss. Several methods have been used to ensure secure internet surfing such as the blacklisting feature extraction and machine learning techniques. The problem with using these techniques independently from each other is that they may fail to detect newly created or changing URLs. The proposed method in this research is to develop an algorithm based on combining feature engineering with Deep Learning (DL) techniques to detect malicious URLs. This method reduces the number of false positives and improves its accuracy, thereby boosting the algorithms overall performance.

**General Limitations and Strengths**

The research question is well formulated, realistic and can be executed within a given timeframe. The proposed research is not genuinely novel; however, it is still relevant as it is currently used by various cybersecurity companies to develop antivirus software.

**Strengths and Limitations**

What limitations does the proposed methodology have in term terms of its capacity to answer the stated research questions, or support or weaken the research statement?  
What do you perceive as the strengths of the proposed methodology?

**Overall Quality**

Is the English language of sufficient quality?  
Does the reference list cover the relevant literature adequately? (*answer only, if you know the research area*)  
Are the methods sufficiently documented to allow replication studies?  
Are the statistical methods, if planned, valid?

You may add another section with any comments that do not fall in any of the above categories, but of which you think they could benefit the authors.  
Whenever applicable, use page, section, and paragraph numbers or header names to cross-reference concrete parts of the report.

In the Abstract section, the phrase "research focuses on" is used in lines 6 and 11. That is, the purpose of the research is introduced twice. Both sentences could be combined into one. For example, *'This research focuses on developing a robust and scalable algorithm by combining feature engineering and Deep Learning techniques for detecting malicious URLs'.*

In the Introduction, it is better to use an in-text citation to reference a paper rather than using the title of the paper. Lines 9-11 could be rewritten this way, *Vazhayil et al (2018) suggest using Machine Learning or Deep Learning techniques to overcome the limitations of the conventional blacklisting techniques.*

Also, the in-text citation should always be placed before the full stop rather than after. For example, this sentence in lines 11 – 13 could be rewritten this way *Moreover, the author describes the potential demerits of the machine learning algorithm and suggests the use of a Deep Learning technique for better URL detection (Vazhayil, et al., 2018).*