

A Review on PDF Malware Detection: Toward Machine Learning Modeling with Explainability Analysis

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Abstract: *The "PDF Malware Detection: Toward Machine Learning Modeling with Explainability Analysis" project aims to develop a machine learning model to detect malware embedded within PDF files, focusing on enhancing both detection accuracy and transparency. By leveraging explainable AI techniques, the model seeks not only to identify malicious PDFs but also to provide insights into the decision-making process, offering a clear understanding of the features contributing to the detection of potential threats. This project combines cybersecurity and machine learning to improve the safety of digital documents in a user-comprehensible way.*

Keywords: PDF Malware Detection, Machine Learning Explainability Analysis, Feature Engineering Malicious PDF Analysis