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**A STUDY OF DEPLOYMENT OF MACHINE LEARNING IN BOTNET
DETECTION SYSTEM**

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ABSTRACT

Botnets have attracted the interest of scholars all around the world in the last ten to fifteen years. A lot of work has gone into building technologies that can detect the existence of a botnet quickly and effectively. The goal of this thesis is to address the issues with standard botnet detection methods and come up with more effective solutions. The research presented in this thesis looks at the botnet at various phases in order to develop effective detection mechanisms and overcome the limitations of standard botnet detection methods on both the Windows and Android platforms. The researchers tackled this one-of-a-kind problem by employing machine learning (ML). In this paper, we provide a brief overview of the different machine learning (ML) methods and their application to the problem of botnet identification. Understanding the role of various machine learning algorithms in Botnet identification is the major focus of this work. Having a thorough understanding of these roles is essential for developing effective and efficient real-time online detection algorithms and more robust models.