**Title of the project: pyELFER:-**Python tool for Analysing and Exploiting ELF binaries.

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**ABSTRACT**

Reverse Engineering of a Binary is that the process that hackers use for deciding a program’s components and functionalities and sometimes even get access to the program’s partial ASCII text file by decompiling it employing a decompiler so as to seek out vulnerabilities within the program. this idea also can be utilized in capturing the flag contest reverse engineering challenges where a participant has got to find the flag secretly hid inside the binary. Our project “pyELFer” may be a python program that reverses an ELF binary (ELF- Executable and Linkable Format) and provides information about the binary and mainly optimized for CTF’s challenges where the binary itself find the flag for the challenge and even looks out whether the binary is susceptible to any overflow attacks.