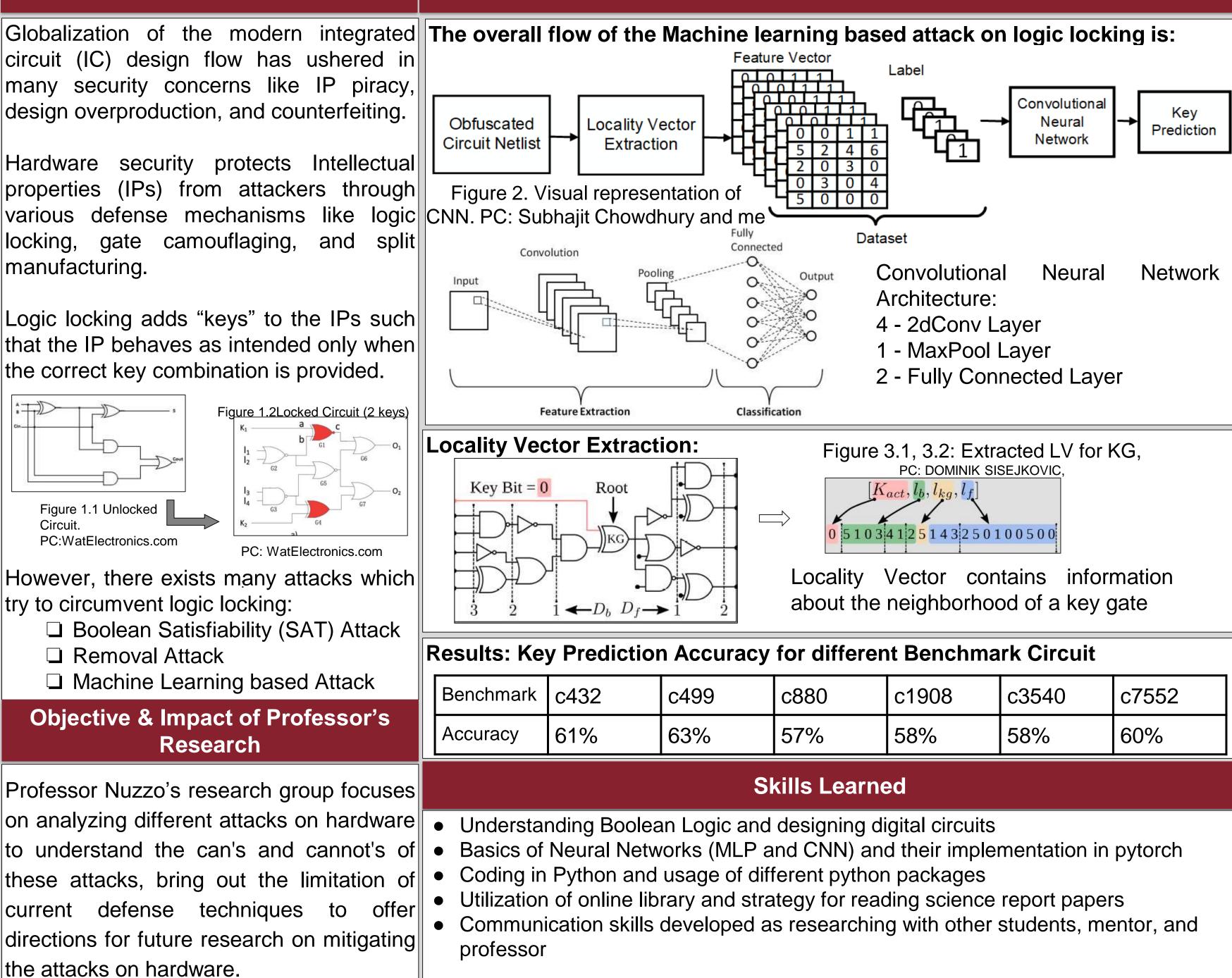


Attacks to Security of Logic Locking Muqing (Michael) Zhao, muqingzhao526@gmail.com Yorba Linda High School, Class of 2022 **USC Viterbi Department of Electrical Engineering, SHINE 2021**

Introduction

Machine Learning Based Attack on Logic Locking





c1908	c3540	c7552
58%	58%	60%

How This Relates to Your **STEM Coursework**

In this SHINE program, have gained coding skills which is going help me further my STEM to throughout my high knowledge school learning.

The ability to assimilate research help papers is going to me understand STEM concepts much easily in the future

Next Steps

The topic I have researched on in the SHINE program this summer has been very interesting and it has reinforced my interest in STEM. I want to continue following up on this topic in the future. Presently, the training dataset is small, and my next step is to add more data points to improve the training of the CNN. We expect that the key prediction accuracy will further go up as we add more data points to the dataset.

Acknowledgements

like to formally thank would Professor Pierluigi Nuzzo, my Ph.D. Mentor Subhajit Dutta Chowdhury, my lab partner Nicholas Hornung, Center Mentor Emily Yamanaka, and Dr. Mills for all of this great time and all the help they have offered!