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Course: TINFO 481 - Information Technology Design Project

Faculty Sponsor: Professor D.C. Grant

Project Title: Mobile Device Detector

Abstract: In the world of mobile forensics, one of the first steps of extracting evidence off of the targeted device is identifying what the model of the phone is. Unfortunately, most phones do not label their model clearly on the device itself. For examiners, this could mean having to disassemble the phone to identify its model number, or scouring the internet to try to find an image similar to the device they have. My objective this quarter was to start the creation of a simpler solution for this problem. I successfully trained TensorFlow’s Object Detection API to be able to accurately detect 7 different phones. If I had the time to train every phone available, this would allow forensic examiners to simply use their laptop’s webcam or an uploaded image to detect what model phone they have acquired from a crime scene.