

Phone Application Behavior in Network Traffic

Capstone Project 2018-2019

INDUSTRY FOOT PRINT



81.9 M Subscribers in the US alone



WHY APPS?



How can we optimize the network using app classification?



Scoping & Research

Defined and narrowed scope of project to Binary Classification of apps



Data Generation & Exploration

Generated encrypted network traffic in a controlled environment and explored this data through Wireshark



Feature Engineering and Modeling

Applied engineered features to models of different complexities

0.73

F-Score with Random Forest

Feedback & Iteration

Maintained an iterative cycle of development with constant sponsor feedback

