

Offloading mobile data traffic through opportunistic communications is a promising solution to partially solve overloaded cellular networks, because there is almost no monetary cost for it. As a case study, in this project I implemented the target-set selection problem, which was suggested before in "Mobile Data Offloading through Opportunistic Communications and Social Participation". I implemented three proposed algorithms, called Greedy, Heuristic, and Random, and also suggested combination static information (Facebook friends networks) with dynamic information (cellular networks) to have a better prediction for  $k$  primitive users.