**Obidroid: Monitoring the Android App Store for Unfair or Deceptive Practices**

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ABSTRACT

Google's Android platform is currently one of the most popular smartphone platforms in the world, with over 81% market share and over 10 billion app downloads.  Its popularity has created the motivation for some nefarious developers to create a multitude of harmful application types.  While Google is constantly monitoring malware, there is seemingly no monitoring of apps that the Federal Trade Commission may consider fair or deceptive.  In **Obidroid**, we have built a prediction model based on app attributes that flags applications, which may be engaging inunfair or deceptive practices.  Obidroid accomplishes its analysis by utilizing the best combinations of features derived from the app attributes for classification.  We found the most informative features to be install count, review sentiment, review capital count and review length because they showed to be a great indicator of the apps status.  The average prediction accuracy for our best model on theentiredataset was 89.75%.  With these promising results, we believe our prediction model can help scale down the task of monitoring the exponentially increasing number of apps on the App Store.