

TABLE I
ANDROID APPS ANALYSIS

| App Name | Category | Version | Downloads | Analysis |
|-------------------------------|-----------|-------------------|-----------|--|
| Gaana | Music | 8.53.2 | 100M+ | Device info: device model, brand, hardware, manufacturer, os version, screen height, screen width; App info: app version, application build, application package name, source of install, installer package; Sensor data: accelerometer data; Unique IDs: advertiser id, anonymous id, attribution, uuid; Personal info: phone number, OTP, locale, country, timezone |
| JioSaavn | Music | 9.28.3 | 100M+ | Device info: device model, manufacturer, hardware, os version, screen height, screen width, screen density; App info: app version, application build, application package name, source of install, installer package, build number; Unique IDs: advertiser id, anonymous id, attribution, idfa; Personal info: locale, country, timezone |
| Spotify | Music | 9.0.80.1343 | 1B+ | Device info: device model, manufacturer, brand, hardware, os version, screen height, screen width, screen density; App info: app version, application build, application package name, app tracking enabled, source of install; Sensor data: accelerometer data; Unique IDs: anonymous id; Personal info: gender, locale, country, timezone |
| WeSing | Music | 5.91.2.1009 | 100M+ | Device info: device model, manufacturer, hardware, os version, os build; App info: application build, installer package; Unique IDs: advertiser id, anonymous id, attribution, android id; Personal info: email, locale |
| Wynk Music | Music | 3.72.0.2 | 100M+ | Device info: device model, manufacturer, brand, hardware, os version, os build, screen height, screen width, sdk level; App info: app version, application build; Unique IDs: anonymous id, android id; Personal info: phone number, email, OTP, locale, country, timezone |
| Beauty Camera - Selfie Camera | Editing | 3.1.5 | 10M+ | Device info: device model, os version, screen height, screen width; App info: application package name, source of install; Sensor data: accelerometer data; Unique IDs: idfa; Personal info: locale, timezone |
| InShot | Editing | 2.145.1500 | 500M+ | Device info: device model, screen height, screen width; App info: application package name; Unique IDs: android id; Personal info: email |
| Snapseed | Editing | 2.19.1.30-3051424 | 100M+ | Device info: device model, hardware, manufacturer, os build; App info: application build; Personal info: locale, country |
| Photo Editor Pro - Polish | Editing | 1.662.224 | 100M+ | Device info: device model, hardware, manufacturer, os build; App info: app version, application build, application package name; Personal info: locale, country, timezone |
| PicsArt | Editing | 28.4.8 | 1B+ | Device info: device model, hardware, manufacturer, os build, os version; App info: application package name, application build, source of install, build number; Unique IDs: advertiser id, anonymous id, attribution, android id; Personal info: email, name, locale, timezone, country |
| Swiggy | Food | 4.93.1 | 100M+ | Device info: device model, manufacturer, hardware, os build; App info: app version, application build; Personal info: locale, country |
| Domino's | Food | 12.1.26 | 100M+ | Device info: device model, manufacturer, brand, hardware, os version, os build, screen height, screen width; App info: app version, application build, installer package; Sensor data: accelerometer; Unique IDs: advertiser id, anonymous id, attribution; Personal info: phone number, OTP, name, locale, country, timezone, latitude, longitude, city |
| McDelivery | Food | 14.2.0 | 10M+ | Device info: device model, manufacturer, brand, hardware, os version, os build, screen height, screen width; App info: app version, application build; Sensor data: accelerometer; Unique IDs: advertiser id, anonymous id, attribution; Personal info: phone number, OTP, name, locale, country, timezone, latitude, longitude, city |
| Zomato | Food | 19.1.8 | 100M+ | Device info: device model, manufacturer, brand, hardware, os version, os build, screen height, screen width; App info: app version, application build, installer package; Sensor data: accelerometer; Unique IDs: advertiser id, anonymous id, attribution; Personal info: phone number, OTP, name, email, locale, country, timezone, latitude, longitude, city |
| Instamart | Food | 4.92.0 | 10M+ | Device info: device model, manufacturer, brand, hardware, os version, os build, screen height, screen width; App info: app version, application build, installer package; Sensor data: accelerometer; Unique IDs: advertiser id, anonymous id, attribution; Personal info: phone number, OTP, name, locale, country, timezone, latitude, longitude, city |
| Adda247 | Education | 11.9.7 | 10M+ | Device info: device model, manufacturer, brand, hardware, os version, os build, screen height, screen width; App info: app version, application build, application package name; Unique IDs: advertiser id, anonymous id, android id, attribution; Personal info: email, locale, country, timezone |
| HomeworkApp | Education | 2.20.17 | 1M+ | Device info: device model, brand, manufacturer, os version; App info: application package name; Unique IDs: advertiser id, anonymous id, attribution; Personal info: locale, timezone |
| MyPathshala | Education | 3.2.5 | 500K+ | Device info: device model; App info: application package name; Unique IDs: advertiser id, anonymous id, attribution |
| NET SET JRF Mock Tests | Education | 2.2 | 100K+ | Device info: device model, brand, manufacturer, os version; App info: app version, application package name; Unique IDs: advertiser id, anonymous id, attribution; Personal info: email, locale, timezone |
| PW | Education | 15.34.05 | 10M+ | Device info: device model, brand, manufacturer, os version, hardware, screen height, screen width; App info: app version, application build, application package name; Unique IDs: android id; Personal info: OTP, email, name, locale, country, timezone |
| Astrology & Horoscope | Astrology | 3.0 | 1M+ | Device info: device model, manufacturer, hardware, os build; App info: application build; Unique IDs: uuid; Personal info: locale |
| AstroSageAI | Astrology | 27.4 | 50M+ | App info: app version; Personal info: phone, OTP, gender, latitude, longitude, city, timezone |
| AstroTalk | Astrology | 1.1.402 | 50M+ | Device info: device model, manufacturer, brand, hardware, os build, sdk level; App info: app version, application build, application package name, build number; Unique IDs: advertiser id, anonymous id, android id, attribution, installer package; Personal info: phone, OTP, DOB, gender, pincode, locale, country, city, timezone |
| AstroYogi | Astrology | 19.1 | 10M+ | Device info: device model, manufacturer, hardware, os build, sdk level; App info: app version, application build, application package name, build number; Unique IDs: advertiser id, anonymous id, attribution, installer package; Personal info: OTP, locale, country, timezone |
| HiAstro | Astrology | 3.8.0 | 100K+ | Device info: device model, manufacturer, hardware, os build; App info: application build; Personal info: OTP, DOB, locale, latitude, longitude |

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| Dance Workout | Fitness & Health | 3.0.512 | 1M+ | Device info: device model, manufacturer, hardware, os build; App info: app version, application build, application package name; Personal info: locale, country |
| EasyFit | Fitness & Health | 1.1.8 | 100K+ | Device info: device model, manufacturer, hardware, os build, sdk level; Personal info: locale |
| Home Workout | Fitness & Health | 1.5.7 | 100M+ | Device info: device model, manufacturer, hardware, os build, sdk level, screen height, screen width; App info: app version, application build, application package name; Sensor data: accelerometer; Unique IDs: idfa; Personal info: locale, country, timezone |
| Yog4Lyf | Fitness & Health | 2.9.2 | 1M+ | Device info: device model, manufacturer, hardware, os build, os version; App info: app version, application build, application package name; Unique IDs: advertiser id, anonymous id, android id, attribution, installer package; Personal info: email, locale, country, timezone |
| Yoga for Beginners | Fitness & Health | 1.5.9 | 5M+ | Device info: device model, manufacturer, hardware, os build, os version, screen height, screen width; App info: app version, application build, application package name; Unique IDs: advertiser id, anonymous id, android id, attribution, installer package, app tracking enabled; Personal info: email, locale, country, timezone |
| Dot & Key | Shopping | 8.0.1 | 1M+ | Device info: device model, manufacturer, hardware, os build, os version, brand, screen height, screen width; App info: app version, application build, application package name; Unique IDs: anonymous id, attribution, installer package; Personal info: OTP, locale, country, timezone |
| Libas | Shopping | 10.19.0 | 1M+ | Device info: device model, manufacturer, brand, hardware, os build, os version, sdk level, screen height, screen width, rooted; App info: app version, application build, application package name, build number, application tracking enabled; Unique IDs: advertiser id, anonymous id, android id, attribution, installer package; Personal info: phone, OTP, email, name, pincode, locale, country, city, timezone |
| Pilgrim | Shopping | 11.0.19 | 1M+ | Device info: device model, manufacturer, brand, hardware, os build, os version, sdk level; App info: app version, application build, application package name, build number, application tracking enabled; Unique IDs: advertiser id, anonymous id, android id, attribution, installer package; Personal info: phone, OTP, address, locale, country, city, timezone |
| Renee Cosmetics | Shopping | 2.1.583 | 1M+ | Device info: device model, manufacturer, brand, hardware, os build, os version, sdk level, screen width; App info: app version, application build, application package name, application tracking enabled; Unique IDs: advertiser id, anonymous id, android id, attribution, installer package; Personal info: OTP, locale, country, timezone |
| The Derma Co | Shopping | 3.1 | 1M+ | Device info: device model, manufacturer, brand, hardware, os build, os version, sdk level, screen height, screen width; App info: app version, application build, application package name, app tracking enabled, application tracking enabled; Unique IDs: advertiser id, anonymous id, android id, attribution, installer package; Personal info: OTP, phone, email, name, locale, country, timezone, city, DOB, address |
| eCabs | Rides | 5.12.4.2 | 500K+ | Device info: device model, manufacturer, brand, hardware, os build, os version, sdk level, screen height, screen width; App info: app version, application build, application package name, app tracking enabled, application tracking enabled; Unique IDs: advertiser id, anonymous id, attribution, installer package; Personal info: locale, country, timezone |
| Ola | Rides | 7.3.9 | 100M+ | Device info: device model, manufacturer, brand, hardware, os build, os version; App info: app version, application build; Unique IDs: android id; Personal info: locale, country, timezone |
| OraRide | Rides | 2.2.6 | 50K+ | Device info: device model, manufacturer, hardware, os build, os version, screen height, screen width; App info: application package name, application build, app tracking enabled, application tracking enabled; Unique IDs: android id; Personal info: email, locale, country |
| Rapido | Rides | 8.80.0 | 100M+ | Device info: device model, manufacturer, hardware, os build; App info: application build, app version; Personal info: locale, country, timezone |
| Uber | Rides | 4.599.10002 | 1B+ | Device info: device model, manufacturer, hardware, os build, screen height, screen width; App info: app version, application build, source of install; Unique IDs: uid, android id; Personal info: email, phone, locale, country, timezone, latitude, longitude |
| AB Friends | Gaming | 13.5.3 | 100M+ | Device info: device model, manufacturer, hardware, os build; App info: app version, application build, application package name, installer package; Unique IDs: advertiser id, anonymous id, attribution; Personal info: locale, country |
| Candy Crush Soda | Gaming | 1.303.1 | 500M+ | Device info: device model, brand, os version; App info: app version, application package name, installer package, attribution; Unique IDs: advertiser id, anonymous id; Personal info: locale |
| Hangman Words | Gaming | 1.5106 | 10M+ | Device info: device model, manufacturer, hardware, os build, screen height, screen width; App info: app version, application build, application package name, source of install, installer package, attribution; Unique IDs: uid, advertiser id, anonymous id; Personal info: credit card, locale, country, timezone |
| Water2 | Gaming | 1.9.48 | 100M+ | Device info: device model, os version, screen height, screen width; App info: app version, application package name, source of install; Sensor data: accelerometer data; Unique IDs: idfa; Personal info: locale, country, timezone |
| Yalla Ludo | Gaming | 1.4.5.1 | 100M+ | App info: application package name |
| DreamShort | Entertainment | 1.26.20 | 1M+ | Device info: device model, os version, screen height, screen width, brand, hardware, manufacturer, sdk level, os build; App info: app version, application package name, source of install, application build, app tracking enabled, application tracking enabled; Sensor data: accelerometer data; Unique IDs: idfa, android id, anonymous id, attribution; Personal info: email, locale, country, timezone |
| JioCinema | Entertainment | 25.04.100-ce3c406 | 100M+ | Device info: device model, os build, hardware, manufacturer; App info: app version, application build; Unique IDs: advertiser id; Personal info: locale, country, timezone |
| Netflix | Entertainment | 9.37.0 build 7 63508 | 1B+ | Device info: device model, os build, hardware, manufacturer; App info: app version, application build; Personal info: locale, country |
| Sony LIV | Entertainment | 6.22.10 | 100M+ | Device info: device model, hardware, manufacturer, os build; App info: app version, application build; Personal info: locale, country, timezone |
| ZEE5 | Entertainment | 39.31.4 | 100M+ | Device info: device model, hardware, manufacturer, os build, sdk level, brand; App info: app version, application build, application package name, installer package; Unique IDs: advertiser id, anonymous id; Personal info: locale, country, timezone |