**Feature Selection**

Op basis van een aantal feature matrices die gemaakt zijn op basis van de Universal dataset zijn de volgende features gevonden die van belang kunnen zijn bij het classificeren van het geslacht en de leeftijd. Deze punten zijn:

* Age Group – Category
* Age Group – Phone Brand
* Age Group – Device Model
* Age – Phone Brand

|  |  |
| --- | --- |
| Age Group | Category |
| F23- | Adventure Game  entertainment  other ball game |
| F24-26 | Desktop Enhancements  Texas Poker  Game-fishing  Majiang |
| F27-28 | Academic Information  Racing (RAC)  Raising up game  round |
| F29-32 | Games  Literacy Games  MOBA  Mother |
| F33-42 | Educational Games  Integrated Ticket Information  Man-playing favorites |
| F43+ | Families with babies  Families with big babies  Families with small babies  Intellectual Development Game  Parenting  Education for babies  Game-aircraft  Math |
| M22- | 80’s Japanese Comic  90’s Japanese Comic  Occupational Identity  tennis |
| M23-26 | Editor  Finanical Futures  Guard Tower Defense Games  Pirated Content  Sports Games  Billiards  Football  Pet raising up |
| M27-28 | Domestic Travel  High-End Hotel  Sellers  Art and culture  phone |
| M29-31 | Hong Kong, Taiwan and Macao (aviation)  Information  Jin Yong  Southeast Asia (Travel)  Sports News  Basketball  Game-horizontal version  sports |
| M32-38 | Cultivation Fantasy Game  Europe, the United States and Macao (Aviation)  Hong Kong, Taiwan and Macao (Travel)  Make-up Application  Racing Games  Regional Aviation  Senki  Shushan  Skin care applications  Southeast Asia (Aviation)  Table Games  Tour Around  Trust  exchange rate  reality show  science fiction  shopping sharing  shows  strategy game  study abroad |
| M39+ | Exchange  H Shares  Housekeeping  Other Shares  Tower Defense  Fighting game  Financial  Natural |

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| Age Group | Phone\_brand |
| F23- | Cube-Talk |
| F29-32 | LAVA |
| F33-42 | LAVA |
| F43+ | GAMMA |
| M23-26 | HKS |
| M27-28 | Phi-Comm |
| M32-38 | ASUS  CHINA-Quadband TV  Chinese |
| M39+ | ZUK |

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| Age Group | Device\_model |
| F23- | GN151  M4  One ME  R850  S5830I  Y11IW |
| F24-26 | A3900  A5800-D  D516w  ELIFE E6 mini  I9118  P9+  S820  S9T  X907 |
| F27-28 | 7295+  Galaxt Tab 4 T331C  Grand X Quad  Optimus G Pro  S60t  Y560-CL00 |
| F29-32 | 1100  5872  C8815  E6T  M20-M  One X  U9508  Xperia P  Y623 |
| F33-42 | 3000  3007  5316  8085  8198T  A2580  D330  Mote X3  N1 Max  One Max  P3  S2y  S3  SM-T2558  V981  X68T  Ivvi k1 mini |
| F43+ | 7296  Desire 610t  ELIFE E3T  M031  M6-M7  X8T  Y11IT  Y22IL |
| M22- | 8732  A30  BF T18 Plus  Desire 826  G717C  Galaxy Tab 3 10.1  I635T  M310  S868t  Touch 3c  Xperia T2 Ultra |
| M23-26 | A6800  G6-C00  G520-0000  BM002  Desire 626  E7  G7200  Galaxy S7  L930i  MI 4S  Moto X Style  Q802T  R830S  S5.1  U3  Y31  Idol X |
| M27-28 | 8715  Blade S6  Desire 820 Mini  C730Lw  GN139  Galaxy Nexus  Galaxy Premier  Nexus 6P  S890  X1S |
| M29-31 | 5891Q  C8817L  G520-T10  G730  GN9002  Galaxy Tab S T705  M3  MediaPad 10 Link +  Moto G  Moto Turbo  One A9  Vibe Z2 Pro  Xperia C3  Xperia S  Xperia T  Xperia Z3+ Dual |
| M32-38 | 1105  8707  8720  9976D  A678-t  Axon-Mini  C8813  E50-T  G521  G629  Galaxy K Zoom  Galaxy X7 Edge  K80  K860i  LT416  M210  M811  Mate  One M9e  P2  P500M  Q7  S90-t  S939  T528d  U960E  X805  Xperia Z3 mini  Xshot  Y518-T00  Z7 |
| M39+ | 5892  5950  7296S  8730L  A360t  A3800d  C8816  Desire 616  E621T  G4  G520-5000  GN137  Gn715  Galaxy Core Lite  M601  Galaxy Core Mini  Galaxy Grand Neo Plus  Galaxy Note Edge  I8268  P1c58  P301M  P308L  P9  R815T  S2  S7566  S850  T12  T5  T708  U817  V188  Xperia Z7 Ultra  Y511-U00 |

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| --- | --- |
| Phone\_brand | Age |
| Asus | 33 |
| China-Quadband TV | 37 |
| Chinese | 37 |
| Cube Talk | 20 |
| Gamma | 62 |
| Hisense | 36 |
| HKS | 24 |
| Lava | 32, 40 |
| Li-Feng | 32 |
| Meitu | 23, 24 |
| Phicomm | 27 |
| Samsung-Galaxy | 29 |
| Samsung-Jitterbug | 25 |
| Smartisan | 29 |
| Voxtel | 19, 32 |
| ZTE | 19, 39 |

Longitude en Latitude hebben unieke features per group. Deze kunnen gebruikt worden om age, gender en group te bepalen. Alleen door de hoge hoeveelheid aan eigenschappen kunnen deze niet in een tabel worden gestopt.







