# AI Based Opto-Lexical Pattern Analysis for Behavior Categorization

# **Data Book**

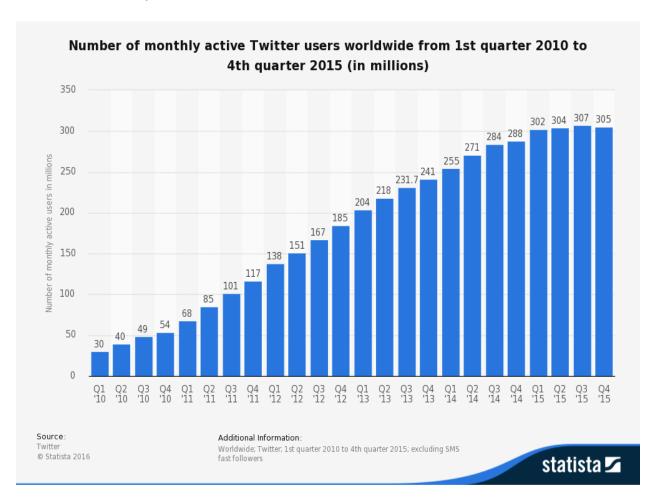
Akshath Jain

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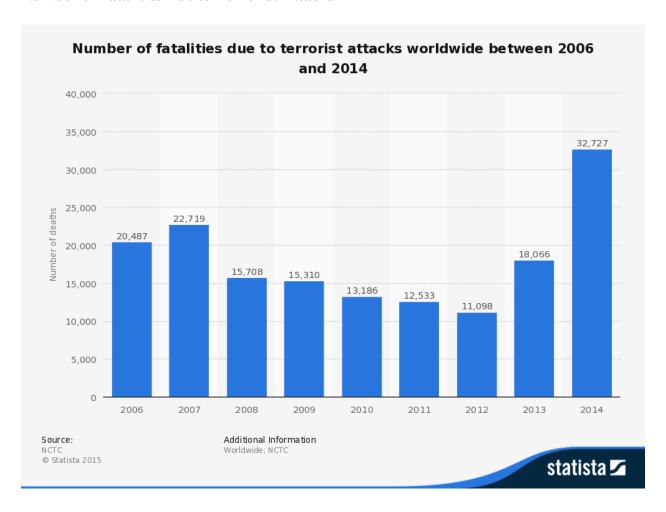
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| Source Code  | Error! Bookmark not defined. |

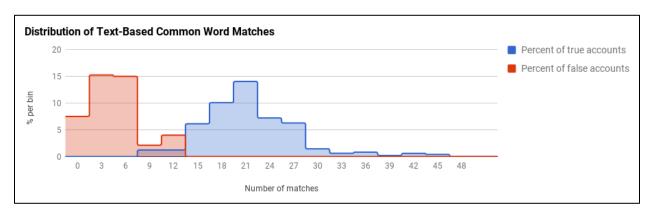
# **Number of Monthly Active Twitter Users**



#### **Number of Fatalities Due to Terrorist Attacks**

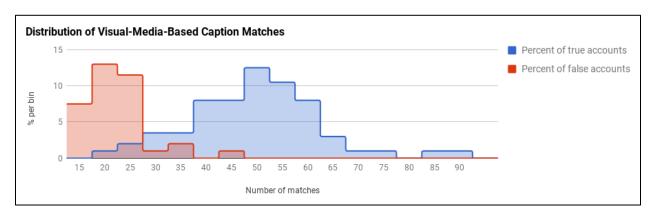


# **Distribution of Text-Based Common Word Matches**



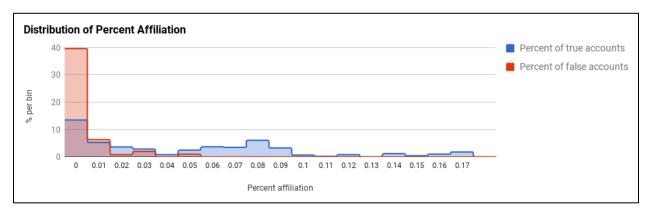
| Bin  | Percent of true accounts | Percent of false accounts |
|------|--------------------------|---------------------------|
| 0    | 0                        | 7.489795918               |
| 3    | 0                        | 15.2244898                |
| 6    | 0                        | 14.95918367               |
| 9    | 1.224489796              | 2.12244898                |
| 12   | 1.224489796              | 4                         |
| 15   | 6.12244898               | 0                         |
| 18   | 10.06122449              | 0                         |
| 21   | 14.02040816              | 0                         |
| 24   | 7.204081633              | 0                         |
| 27   | 6.265306122              | 0                         |
| 30   | 1.448979592              | 0                         |
| 33   | 0.6163265306             | 0                         |
| 36   | 0.8163265306             | 0                         |
| 39   | 0.2                      | 0                         |
| 42   | 0.6                      | 0                         |
| 45   | 0.4                      | 0                         |
| 48   | 0                        | 0                         |
| More | 0                        | 0                         |
|      |                          |                           |

# Distribution of Visual-Media Based Caption Matches



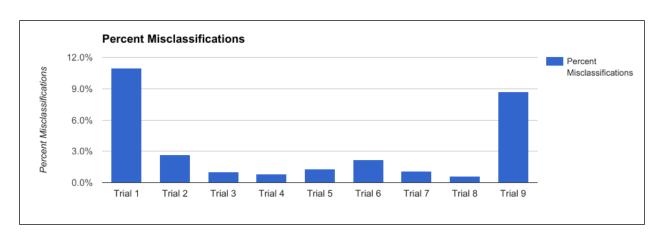
| Bin  | Percent of true accounts | Percent of false accounts |
|------|--------------------------|---------------------------|
| 15   | 0                        | 7.5                       |
| 20   | 1                        | 13                        |
| 25   | 2                        | 11.5                      |
| 30   | 3.5                      | 1                         |
| 35   | 3.5                      | 2                         |
| 40   | 8                        | 0                         |
| 45   | 8                        | 1                         |
| 50   | 12.5                     | 0                         |
| 55   | 10.5                     | 0                         |
| 60   | 8                        | 0                         |
| 65   | 3                        | 0                         |
| 70   | 1                        | 0                         |
| 75   | 1                        | 0                         |
| 80   | 0                        | 0                         |
| 85   | 1                        | 0                         |
| 90   | 1                        | 0                         |
| More | 0                        | 0                         |

# **Distribution of Percent Affiliation**



| Bin  | Percent of true accounts | Percent of false accounts |
|------|--------------------------|---------------------------|
| 0    | 13.51020408              | 39.63265306               |
| 0.01 | 5.306122449              | 6.346938776               |
| 0.02 | 3.632653061              | 0.8163265306              |
| 0.03 | 2.857142857              | 2                         |
| 0.04 | 0.8163265306             | 0                         |
| 0.05 | 2.448979592              | 1                         |
| 0.06 | 3.673469388              | 0                         |
| 0.07 | 3.489795918              | 0                         |
| 0.08 | 6.081632653              | 0                         |
| 0.09 | 3.265306122              | 0                         |
| 0.1  | 0.6734693878             | 0                         |
| 0.11 | 0.2244897959             | 0                         |
| 0.12 | 0.8163265306             | 0                         |
| 0.13 | 0                        | 0                         |
| 0.14 | 1.2                      | 0                         |
| 0.15 | 0.4081632653             | 0                         |
| 0.16 | 1                        | 0                         |
| 0.17 | 1.8                      | 0                         |
| More | 0                        | 0                         |

# **Percent Misclassifications**



|                               | True<br>Accounts |          | False Accounts |            |            |       |        |          |            |
|-------------------------------|------------------|----------|----------------|------------|------------|-------|--------|----------|------------|
|                               | Trial 1:         | Trial 2: | Trial 3:       | Trial 4:   | Trial 5:   | Trial | Trial  | Trial 8: | Trial 9:   |
|                               | Hostile          | Brands   | Companies      | Local      | Movies     | 6:    | 7:     | Websites | Individual |
|                               |                  | and      | and            | Businesses | and        | Music | Sports |          |            |
|                               |                  | Products | Organizations  |            | Television |       |        |          |            |
| Percent<br>Misclassifications | 11.0%            | 2.7%     | 1.0%           | 0.8%       | 1.3%       | 2.2%  | 1.1%   | 0.6%     | 8.7%       |

**Training Set**Note that only a subset of the entire dataset used is shown because of resources limitations.

|          | Training Set    | Number of Common Word<br>Matches | Number of Visual Media Based<br>Caption Matches | Percent<br>Affiliation |
|----------|-----------------|----------------------------------|---|------------------------|
|          | Uncle_SamCoco   | 30                               | 29  | 0.04                   |
|          | RamiAlLolah     | 27                               | 53  | 0.05                   |
|          | warrnews        | 44                               | 80  | 0.09                   |
|          | WarReporter1    | 45                               | 77  | 0.06                   |
|          | mobi_ayubi      | 22                               | 25  | 0.09                   |
| POSITIVE | _IshfaqAhmad    | 24                               | 58  | 0.01                   |
| FOSITIVE | wayf44rerr      | 44                               | 37  | 0.02                   |
|          | Nidalgazaui     | 17                               | 27  | 0.12                   |
|          | MaghrabiArabi   | 38                               | 77  | 0.04                   |
|          | melvynlion      | 29                               | 78  | 0.11                   |
|          | NaseemAhmed50   | 24                               | 73  | 0.11                   |
|          | ismailmahsud    | 37                               | 39  | 0.03                   |
|          | _notmichelle    | 7                                | 12  | 0                      |
|          | jesseayye       | 5                                | 13  | 0                      |
|          | MrBrianLloyd    | 4                                | 16  | 0.01                   |
|          | sarahdorat_16   | 10                               | 6   | 0.01                   |
|          | wanderIustregui | 0                                | 13  | 0.01                   |
|          | andhesonit      | 2                                | 11  | 0                      |
|          | Jas_Thxku       | 6                                | 18  | 0                      |
| NEGATIVE | KLitzau         | 2                                | 8   | 0.02                   |
| NEGATIVE | ThePettyHomo    | 5                                | 28  | 0.02                   |
|          | darkgreyxv      | 7                                | 1   | 0.01                   |
|          | michellemichmic | 7                                | 15  | 0.02                   |
|          | FreeFX2         | 8                                | 6   | 0.02                   |
|          | RichLantos      | 3                                | 3   | 0.01                   |
|          | lonesomestereo  | 10                               | 13  | 0.02                   |
|          | topnotchcvlt    | 5                                | 22  | 0                      |
|          | m_e_lees        | 7                                | 19  | 0                      |

| HobiHobiHaz     | 3  | 9  | 0.01 |
|-----------------|----|----|------|
| BeyonceStanBish | 5  | 13 | 0.01 |
| mrtzchris09     | 7  | 20 | 0.02 |
| ramzax10        | 5  | 17 | 0    |
| a_sewart        | 7  | 24 | 0    |
| ambreezye       | 9  | 13 | 0.02 |
| trisetella      | 6  | 30 | 0.01 |
| aguilarmigs     | 3  | 23 | 0.02 |
| e_loochie       | 2  | 5  | 0.02 |
| ViktorSeriogin  | 8  | 22 | 0.02 |
| oliviaaajames   | 1  | 0  | 0    |
| ghoulslayers    | 4  | 12 | 0    |
| UrosRancic      | 4  | 10 | 0.02 |
| zunurain214     | 5  | 24 | 0.01 |
| Meagan_Grieger  | 6  | 20 | 0.01 |
| tytheintern     | 9  | 7  | 0    |
| WWMobileNews    | 10 | 6  | 0.01 |
| MCsnipes        | 6  | 20 | 0.02 |
| Naktadogg       | 8  | 30 | 0    |
| cooperjellybean | 10 | 6  | 0.01 |
| taeftjimin      | 5  | 16 | 0.02 |
| BIEBERnRIRI     | 8  | 17 | 0.02 |
| fiona_langdon   | 7  | 14 | 0.01 |
| EmmanCabs       | 10 | 16 | 0.02 |
| hannahturner19x | 7  | 15 | 0    |
| KARMAWOWZA      | 5  | 0  | 0.02 |
| lilacjaime      | 4  | 1  | 0    |
| V4apese         | 1  | 26 | 0.01 |
| ThePerfectPad57 | 0  | 22 | 0.01 |
| queermerlxn     | 5  | 0  | 0.01 |
| KellerDwight    | 5  | 4  | 0.01 |
| emailthebert    | 4  | 13 | 0.01 |
| eebeniro        | 9  | 20 | 0.02 |

| KiusRaie | 4 | 16 | 0.02 |
|----------|---|----|------|
| mjsty_   | 3 | 23 | 0    |
| Teri0328 | 3 | 12 | 0.02 |

**Trial 1: Positive Accounts** 

| Trial 1: Positive<br>Accounts | Number of Common Word<br>Matches | Number of Visual Media Based<br>Caption Matches | Percent<br>Affiliation |
|-------------------------------|----------------------------------|---|------------------------|
| Fidaee_Fulaani                | 35                               | 78  | 0.01                   |
| alfresco                      | 10                               | 46  | 0.08                   |
| ro34th                        | 39                               | 68  | 0.07                   |
| AsimAbuMerjem                 | 30                               | 46  | 0.04                   |
| IbnKashmir_                   | 13                               | 36  | 0.03                   |
| MilkSheikh2                   | 29                               | 68  | 0.06                   |
| warreporter2                  | 35                               | 26  | 0.07                   |
| pleaoftheummah                | 45                               | 75  | 0.01                   |
| murasil1                      | 14                               | 30  | 0.12                   |
| btt_ar                        | 23                               | 81  | 0.08                   |
| safiyaimback                  | 27                               | 65  | 0.03                   |
| MaghrebiQM                    | 31                               | 69  | 0.09                   |
| abuhumayra4                   | 15                               | 42  | 0.04                   |
| INSIDEWAR                     | 19                               | 28  | 0.12                   |
| CXaafada2                     | 30                               | 67  | 0.1                    |
| FidaeeFulaani                 | 15                               | 78  | 0.11                   |
| Abu_Azzzam25                  | 29                               | 73  | 0.06                   |
| Witness_alHaqq                | 16                               | 45  | 0.11                   |
| WhiteCat_7                    | 22                               | 64  | 0.09                   |
| abdlrhmn15                    | 27                               | 67  | 0.09                   |
| al_nusra                      | 33                               | 82  | 0.04                   |
| 1Dawlah_III                   | 17                               | 74  | 0.1                    |
| abubakerdimshqi               | 29                               | 61  | 0.01                   |
| Al_Battar_Engl                | 18                               | 58  | 0.05                   |
| Alwala_bara                   | 45                               | 78  | 0.12                   |
| Bajwa47online                 | 9                                | 72  | 0.11                   |
| BaqiyaIs                      | 34                               | 28  | 0.03                   |
| Battar_English                | 40                               | 34  | 0.11                   |

| Jazrawi_Saraqib | 36 | 26 | 0.06 |
|-----------------|----|----|------|
| klakishinki     | 17 | 40 | 0.1  |
| nvor85j         | 43 | 69 | 0.09 |
| saifulakhir     | 43 | 46 | 0.1  |
| al_zaishan10    | 29 | 52 | 0.03 |
| MaghrebiWM      | 12 | 80 | 0.04 |
| moustiklash     | 28 | 27 | 0.03 |
| QassamiMarwan   | 20 | 82 | 0.08 |
| AbuMusab_110    | 28 | 81 | 0.02 |
| Baqiyah_Khilafa | 16 | 81 | 0.1  |
| Freedom_speech2 | 17 | 51 | 0.07 |
| MaghrebiHD      | 19 | 41 | 0.05 |
| maisaraghereeb  | 13 | 57 | 0.1  |
| alamreeki4      | 13 | 33 | 0.08 |
| EPIC24          | 16 | 63 | 0.07 |
| theflamesofhaqq | 34 | 85 | 0.07 |
| 1515Ummah       | 16 | 25 | 0.1  |
| war_analysis    | 43 | 84 | 0.08 |
| abutariq040     | 11 | 81 | 0.01 |
| st3erer         | 41 | 43 | 0.09 |
| AbuNaseeha_03   | 17 | 61 | 0.12 |
| Mountainjjoool  | 15 | 83 | 0.05 |
| MhzBnt          | 15 | 35 | 0.12 |
| freelance_112   | 31 | 40 | 0.08 |
| 432Mryam        | 14 | 35 | 0.11 |
| DawlaWitness11  | 44 | 30 | 0.08 |
| 06230550_IS     | 32 | 34 | 0.08 |
| wayyf44rer      | 33 | 41 | 0.1  |
| YazeedDhardaa25 | 44 | 35 | 0.05 |
| Jazrawi_Joulan  | 28 | 38 | 0.12 |
| squadsquaaaaad  | 40 | 29 | 0.09 |
| k_kid04         | 38 | 43 | 0.1  |
| JoinISNation102 | 12 | 66 | 0.02 |

| 04_8_1437       | 44 | 31 | 0.09 |
|-----------------|----|----|------|
| Suspend_Me_fags | 35 | 45 | 0.01 |
| abutariq041     | 38 | 67 | 0.11 |
| BilalIbnRabah1  | 39 | 57 | 0.12 |
| grezz10         | 25 | 82 | 0.11 |
| emran_getu      | 9  | 28 | 0.08 |
| ALK226          | 24 | 57 | 0.05 |
| sonofshishan    | 15 | 63 | 0.08 |
| AbdusMujahid149 | 9  | 74 | 0.06 |
| ansarakhilafa   | 45 | 67 | 0.02 |
| darulhijrateyni | 19 | 77 | 0.09 |
| KU217_y         | 37 | 29 | 0.04 |
| GunsandCoffee70 | 11 | 26 | 0.06 |
| mustafaklash56  | 26 | 59 | 0.05 |
| kIakishini5     | 36 | 32 | 0.08 |
| abuayisha108    | 33 | 63 | 0.07 |
| JohnsonsBot     | 28 | 68 | 0.03 |
| MaghrebiQ       | 43 | 72 | 0.11 |
| ManKhalfahum    | 11 | 39 | 0.12 |
| Abu_Ibn_Taha    | 43 | 28 | 0.1  |
| c0n0fj1had4_    | 32 | 35 | 0.01 |
| mustaklash      | 16 | 32 | 0.11 |
| abuhanzalah10   | 21 | 34 | 0.04 |
| DabiqsweetsMan  | 26 | 65 | 0.1  |
| Dieinurage308   | 10 | 80 | 0.08 |
| wayff44rer      | 45 | 52 | 0.09 |
| AbuLaythAlHindi | 37 | 27 | 0.08 |
| Afriqqiya_252   | 12 | 72 | 0.03 |
| baaqiya_01      | 40 | 64 | 0.03 |
| dieinurage297   | 14 | 59 | 0.1  |
| almuhajirun9    | 44 | 70 | 0.09 |
| bintraveller    | 9  | 85 | 0.07 |
| ks48a174031     | 40 | 28 | 0.12 |

| Mosul_05       | 39 | 75 | 0.05 |
|----------------|----|----|------|
| Abdul05        | 19 | 62 | 0.08 |
| abuayisha102   | 20 | 33 | 0.09 |
| fahadslay614   | 21 | 68 | 0.04 |
| newerajihadi61 | 22 | 62 | 0.1  |

**Trial 2: Brands and Products** 

| Trial 2: Brands and Products | Number of Common Word<br>Matches | Number of Visual Media Based<br>Caption Matches | Percent<br>Affiliation |
|------------------------------|----------------------------------|---|------------------------|
| MercedesBenz                 | 8                                | 29  | 0.02                   |
| Audi                         | 4                                | 3   | 0.02                   |
| DJIGlobal                    | 5                                | 13  | 0.01                   |
| Polaroid                     | 3                                | 23  | 0                      |
| Chanel                       | 9                                | 16  | 0.02                   |
| hm                           | 6                                | 26  | 0                      |
| marcjacobs                   | 3                                | 16  | 0.02                   |
| android                      | 3                                | 19  | 0                      |
| microsoft                    | 8                                | 4   | 0.01                   |
| googlechrome                 | 2                                | 6   | 0.02                   |
| windows                      | 10                               | 24  | 0.02                   |
| gopro                        | 2                                | 3   | 0.01                   |
| sony                         | 9                                | 30  | 0.02                   |
| maccosmetics                 | 0                                | 2   | 0                      |
| gfuelenergy                  | 3                                | 0   | 0.02                   |
| nike                         | 6                                | 12  | 0                      |
| jumpman23                    | 10                               | 16  | 0.02                   |
| adidas                       | 3                                | 22  | 0.02                   |
| unam_mx                      | 9                                | 6   | 0                      |
| harvardhealth                | 5                                | 2   | 0                      |

**Trial 3: Companies and Organizations** 

| Trial 3: Companies and Organizations | Number of Common Word<br>Matches | Number of Visual Media Based<br>Caption Matches | Percent<br>Affiliation |
|--------------------------------------|----------------------------------|---|------------------------|
| 3m                                   | 1                                | 11  | 0.01                   |
| mahindrarise                         | 2                                | 15  | 0.01                   |
| tatacompanies                        | 7                                | 19  | 0.01                   |
| generalelectric                      | 10                               | 11  | 0                      |
| virigin                              | 2                                | 16  | 0                      |
| bayer                                | 7                                | 30  | 0                      |
| coopuk                               | 10                               | 10  | 0.02                   |
| dsm                                  | 1                                | 6   | 0                      |
| lvmh                                 | 6                                | 21  | 0                      |
| geindia                              | 6                                | 8   | 0.01                   |
| honeywell                            | 8                                | 25  | 0.01                   |
| utc                                  | 1                                | 10  | 0                      |
| tupperwareww                         | 0                                | 26  | 0.01                   |
| mudocomtr                            | 2                                | 21  | 0                      |
| borusanholding                       | 10                               | 9   | 0                      |
| dubaiholding                         | 7                                | 22  | 0.01                   |
| ecoATM                               | 10                               | 23  | 0.01                   |
| google                               | 1                                | 26  | 0.02                   |
| apple                                | 2                                | 27  | 0                      |
| youtube                              | 10                               | 28  | 0                      |
| hdfclife                             | 8                                | 24  | 0                      |
| bupaarabia                           | 8                                | 23  | 0.01                   |
| mr_social10                          | 8                                | 29  | 0.02                   |
| esurance                             | 7                                | 0   | 0.01                   |
| exitoesvivir                         | 8                                | 13  | 0.01                   |
| axaindonesia                         | 2                                | 14  | 0                      |
| alrajhitakful                        | 9                                | 12  | 0.01                   |

**Trial 4: Local Businesses** 

| Trial 4: Local<br>Businesses | Number of Common Word<br>Matches | Number of Visual Media Based<br>Caption Matches | Percent<br>Affiliation |
|------------------------------|----------------------------------|---|------------------------|
| recordingacad                | 4                                | 26  | 0.01                   |
| tomorrowland                 | 8                                | 9   | 0.01                   |
| e3                           | 7                                | 13  | 0                      |
| ultramusicfestival           | 4                                | 30  | 0.02                   |
| comic_con                    | 9                                | 24  | 0.02                   |
| museummodernart              | 3                                | 15  | 0.02                   |
| designmuseum                 | 9                                | 10  | 0.02                   |
| tate                         | 7                                | 15  | 0                      |
| guggenheim                   | 0                                | 26  | 0.01                   |
| metmuseum                    | 4                                | 16  | 0.01                   |
| babylon                      | 7                                | 13  | 0.01                   |
| niconico_bar                 | 9                                | 4   | 0                      |
| garajistanbul                | 1                                | 6   | 0                      |
| saloniksv                    | 4                                | 1   | 0.01                   |
| sugarhut                     | 8                                | 4   | 0.02                   |
| hobhouston                   | 5                                | 20  | 0.02                   |
| livmiami                     | 8                                | 30  | 0                      |
| facesessex                   | 6                                | 4   | 0                      |
| hobnola                      | 10                               | 21  | 0.02                   |
| xscapesd                     | 3                                | 6   | 0.02                   |
| okuzofficial                 | 3                                | 19  | 0.02                   |
| hoborlando                   | 2                                | 9   | 0.01                   |
| storymiami                   | 6                                | 3   | 0                      |
| lavony                       | 3                                | 21  | 0.02                   |
| vortexjazz                   | 6                                | 22  | 0                      |
| amgniightlife                | 4                                | 27  | 0.01                   |
| avnightclub                  | 6                                | 12  | 0.02                   |
| ukraveupdates                | 5                                | 22  | 0                      |

| coyotefly     | 2 | 16 | 0.01 |
|---------------|---|----|------|
| guaba         | 4 | 24 | 0.01 |
| thehamiltondc | 2 | 24 | 0.02 |

**Trial 5: Movies and Television** 

| Trial 5: Movies and<br>Television | Number of Common Word<br>Matches | Number of Visual Media Based<br>Caption Matches | Percent<br>Affiliation |
|-----------------------------------|----------------------------------|---|------------------------|
| twiitertv                         | 7                                | 17  | 0                      |
| imdb                              | 9                                | 25  | 0.01                   |
| itunestrailers                    | 5                                | 30  | 0.02                   |
| rottentomatoes                    | 5                                | 4   | 0                      |
| cinepremier                       | 4                                | 19  | 0                      |
| yovoyalcine                       | 2                                | 18  | 0                      |
| korseries                         | 3                                | 28  | 0.02                   |
| semuafilm                         | 4                                | 6   | 0.01                   |
| filmsteria                        | 5                                | 16  | 0.01                   |
| boxofficeindia                    | 7                                | 5   | 0                      |
| srkuniversie                      | 7                                | 8   | 0.02                   |
| sibi_sathyaraj                    | 6                                | 30  | 0                      |
| robpattznews                      | 9                                | 6   | 0.01                   |
| cinema21                          | 1                                | 25  | 0.01                   |
| disneypixar                       | 2                                | 11  | 0                      |
| wbpictures                        | 6                                | 18  | 0                      |
| pokemon                           | 6                                | 13  | 0.02                   |
| sonpicsteens                      | 10                               | 24  | 0.02                   |
| starwars                          | 4                                | 20  | 0.02                   |
| universalpics                     | 4                                | 22  | 0                      |

**Trial 6: Music**Note that only a subset of the entire dataset used is shown because of resources limitations.

| Trial 6: Music  | Number of Common Word<br>Matches | Number of Visual Media Based Caption<br>Matches | Percent<br>Affiliation |
|-----------------|----------------------------------|---|------------------------|
| katyperry       | 0                                | 10  | 0                      |
| justinbieber    | 10                               | 3   | 0                      |
| rihanna         | 5                                | 21  | 0.02                   |
| pink            | 7                                | 4   | 0                      |
| niallofficial   | 0                                | 4   | 0                      |
| brunomars       | 6                                | 12  | 0.02                   |
| adele           | 5                                | 1   | 0                      |
| maroon5         | 7                                | 16  | 0.02                   |
| npr             | 9                                | 17  | 0.02                   |
| nrjhitmusiconly | 3                                | 27  | 0.02                   |
| caracolradio    | 8                                | 29  | 0                      |
| wradiocolombia  | 8                                | 23  | 0                      |
| js100radio      | 5                                | 6   | 0                      |
| pramborsradio   | 1                                | 0   | 0.02                   |
| capital967      | 1                                | 27  | 0                      |
| studio92        | 9                                | 29  | 0.01                   |
| radioacktiva    | 6                                | 18  | 0                      |
| radioadn        | 9                                | 17  | 0.02                   |
| rfi             | 3                                | 5   | 0                      |
| 5fm             | 8                                | 25  | 0.01                   |
| hot97           | 6                                | 2   | 0.01                   |
| rds             | 5                                | 28  | 0                      |

Note that only a subset of the entire dataset used is shown because of resources limitations.

**Trial 7: Sports** 

| Trial 7: Sports | Number of Common Word<br>Matches | Number of Visual Media Based Caption<br>Matches | Percent<br>Affiliation |
|-----------------|----------------------------------|---|------------------------|
| cristiano       | 6                                | 20  | 0.01                   |
| kingjames       | 8                                | 0   | 0.02                   |
| neymarjr        | 7                                | 13  | 0                      |
| kaka            | 0                                | 4   | 0.02                   |
| kdtrey5         | 2                                | 22  | 0.01                   |
| sachin_rt       | 0                                | 5   | 0                      |
| imvkohli        | 5                                | 25  | 0                      |
| nba             | 5                                | 18  | 0.02                   |
| nfl             | 1                                | 0   | 0                      |
| championsleague | 10                               | 3   | 0                      |
| fifacom         | 0                                | 26  | 0.01                   |
| wwe             | 4                                | 6   | 0                      |
| arsenal         | 8                                | 13  | 0                      |
| lfc             | 4                                | 17  | 0.01                   |
| lakers          | 4                                | 10  | 0.01                   |
| steelers        | 2                                | 4   | 0.02                   |
| ravens          | 8                                | 30  | 0.01                   |
| warriors        | 10                               | 14  | 0.01                   |
| chivas          | 9                                | 7   | 0                      |
| mls             | 9                                | 10  | 0.01                   |
| dallascowboys   | 2                                | 4   | 0.02                   |
| bvb             | 3                                | 13  | 0.02                   |
| chennaiipl      | 6                                | 20  | 0.02                   |

Trial 8: Websites

| Trial 8:<br>Websites | Number of Common Word<br>Matches | Number of Visual Media Based Caption<br>Matches | Percent<br>Affiliation |
|----------------------|----------------------------------|---|------------------------|
| pewdiepie            | 4                                | 3   | 0                      |
| theonion             | 4                                | 9   | 0.02                   |
| 9gag                 | 0                                | 12  | 0.02                   |
| yuyacast             | 10                               | 8   | 0.02                   |
| detikcom             | 9                                | 2   | 0.02                   |
| enews                | 0                                | 13  | 0.01                   |
| sabqorg              | 5                                | 17  | 0.02                   |
| huffingtonpost       | 8                                | 12  | 0.01                   |
| g1                   | 1                                | 2   | 0.02                   |
| xhnews               | 7                                | 22  | 0.02                   |
| la_patilla           | 1                                | 23  | 0                      |
| gmanews              | 1                                | 7   | 0                      |
| buzzfeed             | 5                                | 16  | 0                      |
| nyimesbooks          | 7                                | 4   | 0.02                   |
| tmz                  | 4                                | 15  | 0                      |
| wikileaks            | 3                                | 29  | 0                      |
| espncricinfo         | 5                                | 24  | 0                      |
| portalr7             | 6                                | 23  | 0                      |
| zaytung              | 10                               | 19  | 0.01                   |
| vivacoid             | 10                               | 19  | 0.01                   |
| younghollywood       | 10                               | 3   | 0.01                   |

**Trial 9: Individual** 

| Trial 9:<br>Individual | Number of Common Word<br>Matches | Number of Visual Media Based Caption<br>Matches | Percent<br>Affiliation |
|------------------------|----------------------------------|---|------------------------|
| princesssam93          | 0                                | 30  | 0.02                   |
| Holliewrightx          | 0                                | 28  | 0.02                   |
| emmkov                 | 7                                | 19  | 0.01                   |
| celtic_stephen         | 9                                | 6   | 0                      |
| xJanosklansx_UK        | 3                                | 20  | 0.02                   |
| iam_ybnl               | 10                               | 12  | 0                      |
| randomafstuff          | 4                                | 14  | 0.01                   |
| be975n_                | 1                                | 8   | 0.01                   |
| mattate9               | 7                                | 14  | 0                      |
| coolhikingblog         | 5                                | 6   | 0.01                   |
| themaddywong           | 4                                | 24  | 0.01                   |
| buff_n3rd              | 4                                | 18  | 0.01                   |
| RiotSquirrrl           | 6                                | 23  | 0.01                   |
| JVP_28                 | 4                                | 14  | 0                      |
| DamonEarp              | 0                                | 3   | 0.02                   |
| barackobama            | 9                                | 13  | 0.02                   |
| kitkhatami             | 4                                | 24  | 0                      |
| akshathjain            | 8                                | 18  | 0.02                   |
| benlandis              | 4                                | 9   | 0.01                   |
| mcthapreacha           | 3                                | 27  | 0                      |