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| --- | --- | --- | --- | --- |
| Algorithm | Keyword | Average  ROUGE-2  Precision | Average  ROUGE-2  Recall | Average  ROUGE-2  F-Measure |
| Word Frequency | ‘huawei’ | 0.0417 | 0.2954 | 0.0712 |
| ‘brexit’ | 0.2246 | 0.2613 | 0.2004 |
| ‘blizzard’ | 0.1579 | 0.4992 | 0.2400 |
| ‘syria’ | 0.1880 | 0.4670 | 0.1838 |
| ‘chandrayaan’ | 0.0263 | 0.0571 | 0.1031 |
| ‘iphone’ | 0.0084 | 0.0434 | 0.0140 |
| ‘microsoft’ | 0.0145 | 0.0928 | 0.0242 |
| ‘turkey’ | 0.2109 | 0.5149 | 0.1894 |
| ‘google | 0.0740 | 0.0212 | 0.0330 |
| ‘climate’ | 0.1800 | 0.0320 | 0.0290 |
| Average |  | 0.1126 | 0.2284 | 0.1088 |



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| --- | --- | --- | --- | --- |
| Algorithm | Keyword | Average  ROUGE-2  Precision | Average  ROUGE-2  Recall | Average  ROUGE-2  F-Measure |
| Term Frequency – Inverse Document Frequency | ‘huawei’ | 0.1158 | 0.3242 | 0.1626 |
| ‘brexit’ | 0.4131 | 0.3983 | 0.3685 |
| ‘blizzard’ | 0.1813 | 0.4771 | 0.2546 |
| ‘syria’ | 0.3578 | 0.6013 | 0.4469 |
| ‘chandrayaan’ | 0.2512 | 0.3805 | 0.2850 |
| ‘iphone’ | 0.1056 | 0.1619 | 0.1109 |
| ‘microsoft’ | 0.1683 | 0.1918 | 0.2184 |
| ‘turkey’ | 0.3104 | 0.5726 | 0.3380 |
| ‘google | 0.2460 | 0.3570 | 0.2350 |
| ‘climate’ | 0.2430 | 0.5610 | 0.3120 |
| Average |  | 0.2392 | 0.4026 | 0.2732 |



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| --- | --- | --- | --- | --- |
| Algorithm | Keyword | Average  ROUGE-2  Precision | Average  ROUGE-2  Recall | Average  ROUGE-2  F-Measure |
| TextRank | ‘huawei’ | 0.1758 | 0.3108 | 0.2006 |
| ‘brexit’ | 0.1864 | 0.2626 | 0.1369 |
| ‘blizzard’ | 0.3032 | 0.4051 | 0.3420 |
| ‘syria’ | 0.2269 | 0.4351 | 0.2872 |
| ‘chandrayaan’ | 0.1559 | 0.0998 | 0.2699 |
| ‘iphone’ | 0.2066 | 0.2339 | 0.2192 |
| ‘microsoft’ | 0.2168 | 0.3357 | 0.2634 |
| ‘turkey’ | 0.3245 | 0.2481 | 0.2617 |
| ‘google | 0.2750 | 0.5840 | 0.3740 |
| ‘climate’ | 0.2400 | 0.3400 | 0.2779 |
| Average |  | 0.2311 | 0.3255 | 0.2633 |



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