Abstract:

An unprecedented way is accomplished by using concept words derived from statistical context analysis between sentences which is better than traditional methods that uses only keyword representation. Through scaling to a very large dataset we proposed an algorithm which discovers and describes events with effective keyword networks, based on their coexisting peripheral co-occurrence. In our experiments, we used real-world news and supervised them into paraphrases by weighting the all attempted events. We evaluated our system by a set of terms that maximally discriminated the percussion in news which also keep the evidences.

Contribution:

★ Real World Data Collection

Prothom Alo News Collection by Crawler (2016-2018)

★ Data Cleaning

Proper Refining for Bengali font and Making Ready to Use

★ Feature Collection

- Feature Collected as per Event's Keyword Networks
- Feature Collected as per Event's Outbreak Area Network
- Every Feature is Weighted for Better Realization & Evaluation

Specimen

Year	Month	Day	খুন	অপহরণ	মারামারি	বিক্ষোভ	দূর্ঘটনা	আতঙ্ক	বরিশাল	চউপ্রাম	ঢাকা	খুলনা	রাজশাহী	রংপুর	সিলেট	ময়মনসিংহ	I
2017	1	. 1	24	0	0	2	0	0	C	0	2	0	0	16	0	(0
2017	1	. 1	21	0	8	0	0	1	C	0	7	8	0	0	0	1	2
2017	1	. 1	4	1	0	0	0	1	C	16	2	0	1	0	0	(Ö
2017	1	. 1	1	0	1	0	0	0	C	0	0	0	0	0	0	(d
2017	1	. 1	15	0	0	0	0	1	C	2	2	0	3	0	0	(0
2017	1	. 1	2	2	1	9	1	1	C	1	2	0	1	0	0	(0
2017	1	. 1	2	0	1	0	2	0	C	0	0	0	0	0	0	(0
2017	1	. 1	18	8	6	0	2	3	C	1	0	0	0	1	0	(d
2017	1	. 1	4	2	2	1	1	5	C	0	0	0	0	0	0	(d
2017	1	. 1	9	7	11	7	3	3	1	2	2	1	0	0	1	(Ö

★ Classification And Clustering

- Evaluation for Better Classification & Clustering Through Ensemble Learning Algorithms
 - Specimen

• Total Number of Misclassified for Decision Tree: 1408

Accuracy on the training subset: 0.782

Accuracy on the test subset: 0.817

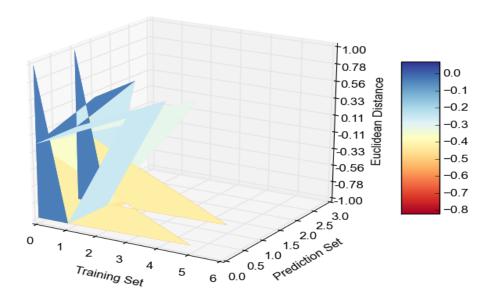
Misclassified Index :

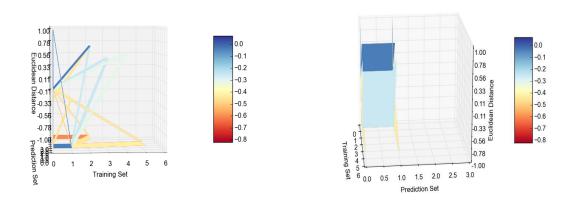
[1][2][4][5][7][8][9][10][14][17].....[7697][7698]

★ Machine Learning

Data Analysis for Automates analytical model & identical patterns

★ Graph & Tree Visualization





☐ Feature Extraction Keyword Network Specimen

- □ WordForEvents=["খুন","নিহত","ঘাত","আঘাত","হত্যা","গুলি","চাকু","বন্দুক","পিস্তল","আগ্নেয়াস্ত","ছুড়ি"," অস্ত্র","সশস্ত্র","রক্তপাত","মার","মেরে","লাশ","মৃত","ঘাতক","পিটিয়ে"]
- WordForArea=["সিলেট", "মৌলভীবাজার", "হবিগঞ্জ", "সুনামগঞ্জ", "বালাগঞ্জ", "বিয়ানীবাজার", "বিশ্বনাথ",
 "কোম্পানীগঞ্জ", "ফেঞ্চুগঞ্জ", "গোলাপগঞ্জ", "গোয়াইনঘাট", "জৈন্তাপুর", "কানাইঘাট", "জকিগঞ্জ", "দক্ষিণ
 সুরমা", "ওসমানী", "বড়লেখা", "কমলগঞ্জ", "কুলাউড়া", "রাজনগর", "শ্রীমঙ্গল", "জুড়ী", "নবীগঞ্জ",
 "বাহ্লবল", "আজমিরীগঞ্জ", "বানিয়াচং", "লাখাই", "চুনারুঘাট", "মাধবপুর", "বিশ্বস্তরপুর", "ছাতক",
 "জগন্নাথপুর", "দোয়ারাবাজার", "তাহিরপুর", "ধর্মপাশা", "জামালগঞ্জ", "শাল্লা", "দিরাই"]