## **EVENT EXTRACTION AND DETECTION**

```
k = len(part_of_speech)
               i = 0
               flag1=0
               flag2=0
               while( i < k):
                      g = part_of_speech[i][1]
                      while( i < k and g.startswith("NN")):
                              flag1 = 1
                              g = part_of_speech[i][1]
                              while(i < k):
                                     g = part_of_speech[i][1]
                                     if(g.startswith("VB")):
                                             flag2 = 1
                                             break
                                     i = i + 1
                              break
                      if(flag1 == 1 and flag2 == 1):
                              print("an event")
                              break
                      i = i + 1
```

The code extracts the tweets with the particular sentence order only as events. Other tweets are categorised as non-events.

## **OUTPUT SCREENSHOTS:**

```
gayathri@ayathri-blackbox-/COLLEGE/BRD YEAR/SEM 6/COMPILER_LAB/PROJECT/project

gayathri@ayathri-blackbox-/COLLEGE/BRD YEAR/SEM 6/COMPILER_LAB/PROJECT.

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the boxler took three wtckets during last match

['the', 'boxler', 'took', three', 'wtckets', 'last', 'match']

[('the', 'boxler', 'took', 'three', 'wtckets', 'last', 'match']

[('the', 'D'), ('towler', 'NN'), ('towler', 'NN'), ('towler', 'NN'), ('three', 'CD'), ('wtckets', 'NNS'), ('last', 'JJ'), ('match', 'NN')]

an event

[('N', 'PRE'), ('fritend', 'NN'), 'C'n't', 'RB'), ('reply', 'VB'), ('message', 'NN'), ('whatsapp', 'NN')]

[('wtcksapp', 'D'), ('NN', 'O')]

[('NN', 'PRE'), ('loser', 'Instagram', 'NNS'), ('Instagram', 'NNP')]

[('shasapp', 'O', '(loser', 'Instagram', 'NNS'), ('Instagram', 'NNP')]

[('Jaanu', 'NNP'), ('loser', 'NN'), ('due', 'JJ'), ('typhoid', 'NN')]

[('Jaanu', 'NNP'), ('hospitalized', 'due', 'typhoid', 'NN')]

[('NN', 'PRE'), ('sister', 'NN'), ('always', 'RB'), ('fights', 'NNS'), ('non', 'NN')]

[('NN', 'PRE'), ('sister', 'NN'), ('good', 'JJ'), ('thfrastructure', 'NN')]

[('NN', 'PRE'), '('sister', 'NN'), ('good', 'JJ'), ('thfrastructure', 'NN')]

[('NN', 'PRE'), '('sister', 'NN'), ('good', 'JJ'), ('thrastructure', 'NN')]

[('NN', 'PRE'), '('sister', 'NN'), ('good', 'JJ'), ('thrastructure', 'NN')]

[('NN', 'PRE'), 'NN', 'NN',
```

```
gayathri@gayathri-blackbox: ~/COLLEGE/3RD YEAR/SEM 6/COMPILER_LAB/PROJECT/project
                 gayathri@gayathri-blackbox: ~/COLLEGE/3RD YEAR/SEM 6/COMPILER_LAB/PROJE... × gayathri@gayathri-blackbox: ~/COLLEGE/3RD YEAR/SEM 6/COMPILER_LAB/PROJE.
(0)
              [('field', '0'), ('NN', '0')]

Players are practising for the match in the main ground

['players', 'practising', 'match', 'main', 'ground']

[('Players', 'NNs'), ('practising', 'VBG'), ('match', 'NN'), ('main', 'JJ'), ('ground', 'NN')]

[('ground', '0'), ('NN', '0')]
                       event
               an event
A hospital is a health care institution providing patient treatment with specialized medical and nursing staff and medical equipment
['A', 'hospital', 'health', 'care', 'institution', 'providing', 'patient', 'treatment', 'specialized', 'medical', 'nursing', 'staff', 'medical'
, 'equipment']
[('A', 'DT'), ('hospital', 'NN'), ('health', 'NN'), ('care', 'NN'), ('institution', 'NN'), ('providing', 'VBG'), ('patient', 'JJ'), ('treatment
', 'NN'), ('specialized', 'VBD'), ('medical', 'JJ'), ('nursing', 'NN'), ('staff', 'NN'), ('medical', 'JJ'), ('equipment', 'NN')]
[('equipment', 'O'), ('NN', 'O')]
an event
             an event
A hospital may be a single building or a number of buildings on a campus with health organisations Celebrations include a drawing of Kolam swinging & the cooking of delicious Pongal Hospitals are usually funded by the public sector health organisations
['A', 'hospital', 'may', 'stingle', 'building', 'number', 'buildings', 'campus', 'health', 'organisations', 'Celebrations', 'include', 'drawing', 'Kolam', 'swinging', '&', 'cooking', 'delicious', 'Pongal', 'Hospitals', 'usually', 'funded', 'public', 'sector', 'health', 'organisations']
[('A', 'DT'), ('hospital', 'NN'), ('may', 'MD'), ('single', 'JD'), ('building', 'NN'), ('number', 'NN'), ('buildings', 'NNS'), ('campus', 'VBP'), ('health', 'NN'), ('organisations', 'NNS'), ('celebrations', 'NNP'), ('include', 'VBP'), ('drawing', 'VBG'), ('Kolam', 'NNP'), ('swinging', 'VBG'), ('BC'), ('cooking', 'VBG'), ('delicious', 'JD'), ('pongal', 'NNP'), ('Hospitals', 'NNP'), ('usually', 'RB'), ('funded', 'VBD'), ('public', 'JD'), ('syanlsations', 'NNS')]
[('organisations', '0'), ('NNS', '0')]
an event
               an event
The medical facility smaller than a hospital is generally called a clinic
['The', 'medical', 'facility', 'smaller', 'hospital', 'generally', 'called', 'clinic']
[('The', 'DT'), ('medical', 'JJ'), ('facility', 'NN'), ('smaller', 'JJR'), ('hospital', 'NN'), ('generally', 'RB'), ('called', 'VBD'), ('clinic', 'NN')]
[('clinic', 'O'), ('NN', 'O')]
                an event
Sport is usually governed by a set of rules or customs which serve to ensure fair competition and allow consistent adjudication of the winner
['Sport', 'usually', 'governed', 'set', 'rules', 'customs', 'serve', 'ensure', 'fair', 'competition', 'allow', 'consistent', 'adjudication', 'w
               tnner']
[('Sport', 'NNP'), ('usually', 'RB'), ('governed', 'VBD'), ('set', 'NN'), ('rules', 'NNS'), ('customs', 'NNS'), ('serve', 'VBP'), ('ensure', 'VB'), ('daly', 'One tition', 'NN'), ('serve', 'VBP'), ('ensure', 'VB'), ('adjudication', 'NN'), ('winner', 'NN')]
[('winner', '0'), ('NN', '0')]
an event
               an event
Users can browse other users' content by tags and locations and view trending content Users can like photos and follow other users to add their
content to a feed
['Users', 'browse', 'users', "'", 'content', 'tags', 'locations', 'view', 'trending', 'content', 'Users', 'like', 'photos', 'follow', 'users',
'add', 'content', 'feed']
[('Users', 'NNS'), ('browse', 'VBP'), ('users', 'NNS'), (""", 'POS'), ('content', 'NN'), ('tags', 'NNS'), ('locations', 'NNS'), ('view', 'VBP')
, ('trending', 'VBG'), ('content', 'NN'), ('Users', 'NNS'), ('like', 'IN'), ('photos', 'NNS'), ('follow', 'VBP'), ('users', 'NNS'), ('add', 'VB
                 gayathri@gayathri-blackbox: ~/COLLEGE/3RD YEAR/SEM 6/COMPILER_LAB/PROJECT/project
                                                                                                                                                                                                                                                                                                                                   🥏 🖪 🖇 💌 🕞 (42%) 🜒 12:02 PM 🔱
                 gayathri@gayathri-blackbox: ~/COLLEGE/3RD YEAR/SEM 6/COMPILER_LAB/PROJE... ×
                                                                                                                                                                                                                           gayathri@gayathri-blackbox: ~/COLLEGE/3RD YEAR/SEM 6/COMPILER_LAB/PROJE.
                                                                                                                                                                                                                                                                                                                                                                                                                                     + 🖃
0
             Users can browse other users' content by tags and locations and view trending content Users can like photos and follow other users to add the content to a feed ["Users', 'browse', 'users', "'", 'content', 'tags', 'locations', 'view', 'trending', 'content', 'Users', 'like', 'photos', 'follow', 'users' add', 'content', 'feed']
[('Users', 'NNS'), ('browse', 'VBP'), ('users', 'NNS'), (""", 'POS'), ('content', 'NN'), ('tags', 'NNS'), ('locations', 'NNS'), ('view', 'VBF', ('trending', 'VBG'), ('content', 'NNS'), ('users', 'NNS'), ('like', 'IN'), ('photos', 'NNS'), ('follow', 'VBP'), ('users', 'NNS'), ('add', 'P'), ('content', 'JJ'), ('feed', 'NN')]
[('feed', 'o'), ('NN', 'o')]
an event
Medicines are making people more sick
('Medicines, 'making', 'people', 'sick']
[('Medicines, 'making', 'people', 'sick']
[('sick', 'o'), ('JJ', 'o')]
an event
My uncle and my grand father visited me today
['My', 'uncle', 'grand', 'father', 'visited', 'today']
[('My', 'Uncle', 'grand', 'father', 'visited', 'today']
[('today', 'O'), ('NN', 'O')]
an event
               Users can browse other users' content by tags and locations and view trending content Users can like photos and follow other users to add their
                                                                        'users', "'", 'content', 'tags', 'locations', 'view', 'trending', 'content', 'Users', 'like', 'photos', 'follow', 'users',
               [('today , '0'), ('N') an event
Sip syrup Clear cough
['stp', 'syrup', 'clear', 'cough']
['Stp', 'NNP'), ('syrup', 'VBD'), ('Clear', 'JJ'), ('cough', 'NN')]
[('cough', '0'), ('NN', '0')]
an event
               an event
Why Idly and Vada are so cool <3
['Why', 'Idly', 'Vada', 'cool', '<', '3']
[('Why', 'WRB'), ('Idly', 'RB'), ('Vada', 'NNP'), ('cool', 'JJ'), ('<', 'VBD'), ('3', 'CD')]
[('3', '0'), ('CD', '0')]
               an event
Instagram is the new cool
['Instagram', 'new', 'cool']
[('Instagram', 'new', 'cool']
[('Instagram', 'new', 'cool']
[('Instagram', 'NNP'), ('new', 'JJ'), ('cool', 'NN')]
[('cool', '0'), ('NN', '0')]
Sources from bihar reveals that student will be able to write exam without hallticket
['Sources', 'bihar', 'reveals', 'student', 'able', 'write', 'exam', 'without', 'hallticket']
[('Sources', 'NNS'), ('bihar', 'VBP'), ('reveals', 'NNS'), ('student', 'NN'), ('able', 'JJ'), ('write', 'JJ'), ('exam', 'NN'), ('without', 'IN'), ('hallticket', 'NN')]
[('hallticket', 'NN', '0')]
[an event
               [('hallttekel', 'o'), ('No.), 's and a started studying C++ and BigData
So I have gone back to lab and started studying C++ and BigData
['So', 'I', 'gone', 'back', 'lab', 'started', 'studying', 'C++', 'BigData']
[('So', 'RB'), ('I', 'PRP'), ('gone', 'VBN'), ('back', 'RB'), ('lab', 'NN'), ('started', 'VBD'), ('studying', 'VBG'), ('C++', 'NNP'), ('BigData
```

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an event

an event

[('ssip', yupi', 'clar', 'cough')
[('ssip', 'Nep'), ('ssrup', 'veg'), ('clear', 'JJ'), ('cough', 'NN')]
[('cough', '0'), ('NN', '0')]

went

[('ssip', 'Nep'), ('ssrup', 'veg'), ('veg'), 'veg'), ('veg', 'ye'), ('veg'), ('veg
```