Workshop on LaTex for Academic, Technical, and Professional Writing

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1 Inline Text Manipulation

Microblog platforms such as "twitter", *sina weibo*, etc. are rapidly moving towards a platform for sample text user-generated information production and consumption. Among the several microblog services, #twitter has become the most popular. The real-time nature of twitter plays an important role during a disaster period, such as earthquakes, \wildfires, and so on. This is because the user-generated twitter posts during such events might be useful to serve the situational information needs ($\approx$ 59% & 89%). To_use_underscore it is $X_2\ 4^{th}$ ©2021. colored text

2 Itemize and Enumerate

2.1 The General Type of Itemize

- Explore the image.
- Explore the text.
- Expore the video.
- Explore the sound.
- Create the multimodal data.

2.2 Using the Special Symbol for Item Label

– Explore the image.

* Explore the image.

◇ Explore the text.

▶ Expore the video.

⋆ Explore the sound.

■ Create the multimodal data.

2.3 Numbered Type Itemize

1. Explore the image.
2. Explore the text.
3. Expore the video.
4. Explore the sound.
5. Create the multimodal data.

2.4 English alphabetic Type Itemize (Lowercase)

A Explore the image.

B Explore the text.

C Expore the video.

D Explore the sound.

E Create the multimodal data.

2.5 Roman Numbered Type Itemize (Lowercase)

i Explore the image.

ii Explore the text.

iii Expore the video.

iv Explore the sound.

v Create the multimodal data.

2.6 Roman Numbered Type Itemize (Uppercase)

I Explore the image.

II Explore the text.

III Expore the video.

IV Explore the sound.

V Create the multimodal data.

2.7 Reducing Space between Items

1. Explore the image.
2. Explore the text.
3. Expore the video.
4. Explore the sound.
5. Create the multimodal data.

2.8 Reducing Space between Items and Provide Special Item Label

* Explore the image.
* Explore the text.
* Expore the video.
* Explore the sound.
* Create the multimodal data.

2.9 Reducing Space between Items and Provide Romanized Item Label

i Explore the image.
ii Explore the text.
iii Expore the video.
iv Explore the sound.
v Create the multimodal data.

2.10 Reducing Space between Items and Provide Numeric Item Label

1 Explore the image.
2 Explore the text.
3 Expore the video.
4 Explore the sound.
5 Create the multimodal data.

2.11 Adding Specific Character with Each Numeric Item Label

B1 Explore the image.
B2 Explore the text.
B3 Expore the video.
B4 Explore the sound.
B5 Create the multimodal data.

2.12 Numeric Item Label with Bracket

(1) Explore the image.
(2) Explore the text.
(3) Expore the video.
(4) Explore the sound.
(5) Create the multimodal data.

2.13 Numeric Item Label with Dot

1. Explore the image.
2. Explore the text.
3. Expore the video.
4. Explore the sound.
5. Create the multimodal data.

2.14 Alphabetic Item Label with dot

a. Explore the image.
b. Explore the text.
c. Expore the video.
d. Explore the sound.
e. Create the multimodal data.

2.15 Alphabetic Item Label with dot

A. Explore the image.
B. Explore the text.
C. Expore the video.
D. Explore the sound.
E. Create the multimodal data.

2.16 Romanized Item Label with dot

i. Explore the image.
ii. Explore the text.
iii. Expore the video.

2.17 Romanized Item Label with dot

I. Explore the image.
II. Explore the text.
III. Expore the video.
IV. Explore the sound.

3 Mathematical Equation and Expression

$$e_t = h_t w_a \tag{1}$$

$$a_t = \frac{\exp(e_t)}{\sum_{i=1}^{T} \exp(e_i)}$$

$$v = \sum_{i=1}^{T} a_i h_i$$

$$P(m^{(i)}, n^{(i)}) = \sum_{j=1}^{k} 1\{n^{(i)} = j\} \log(\tilde{n_j^{(i)}})$$

$$\begin{aligned} \text{Combined Span} = & Span[index[1]] \cup \\ & Span[index[1]] \cup \\ & Span[index[1]] \end{aligned}$$

$$\begin{aligned} R_j : \text{if } x_1 \text{ is } A_{j1} \text{ and/or } ..... \ x_n \text{ is } A_{jn} \\ \text{then } Class = C_j, \quad j = 1, ..., N \end{aligned}$$

$$\underset{f_i}{argmax}((h_i, f_i))$$

3.1 Nested LSTMs (NLSTMs)

Nowadays, LSTM based deep learning models are the most popular choice for sequential tasks. In our model, we employ the state-of-the-art nested LSTMs (NLSTMs) model where the LSTM memory cells selectively read and write necessary long-term information through accessing their inner memory. Though LSTM is employing $c_t^{outer} = f_t \odot c_{t-1} + i_t \odot g_t$ to estimate it's outer memory cell value, NLSTMs use the concatenation $(f_t \odot c_{t-1}, i_t \odot g_t)$ as an input to an inner LSTM (or NLSTM) memory cell, and set $c_t^{outer} = h_t^{inner}$. Such mechanism helps the NLSTMs to operate on longer time-scales thus capture the contextual information effectively.

4 Figure Inclusion

Figure 1: Proposed framework.

Figure 2: Sample of positive (left) and negative (right) sentiment bearing images.

5 Table

Now, we illustrate the different types of tables. See the long table illustration from here `https://www.overleaf.com/latex/examples/a-longtable-example/xxwzfxkxxjmc`. Other types of tables are illustrated below:

Table 1: A sample table.

Col1	Col2	Col3	Col4
1	6	87837	–
2	7	78	5415
3	545	778	7507
4	545	18744	7560

Team Name	F1-Score
HITSZ-HLT9 (1st)	0.7083028253
hitmi&t (3rd)	0.6984762534
IITKDetox (9th)	0.6895352367
CSECUDSG (21st)	**0.6795264755**
mnfourka (45th)	0.6581458018
ST_TSResearch (64th)	0.6133591537

Table 2: Comparative performance analysis.

Table 3: Comparative performance analysis against the state-of-the-art.

Methods	Any-Type (Micro Avg.)			
	Precision	Recall	**F1 Score**	Accuracy
Proposed Method	0.4504	**1.0000**	**0.6210**	**0.4504**
Top 5 Performing Teams in TRECIS-2018				
cbnuS2	**0.4559**	0.7780	0.5749	0.4213
KDEIS4_DM	0.3914	0.9856	0.5603	0.3908
umdhcilfasttext	0.4534	0.7260	0.5582	0.4022
Participant Median	0.3978	0.6165	0.4775	0.3385

6 Pseudocode/Algorithm Inclusion

Algorithm 1: How to write algorithms

```
Input: Input:
Output: Output:
Result: Write here the result
initialization;
while While condition do
    instructions;
    if condition then
        instructions1;
        instructions2;
    else
        instructions3;
    end
end
```

$i \leftarrow 10$
if $i \geq 5$ **then**
  $i \leftarrow i - 1$

else
  if $i \leq 3$ **then**
    $i \leftarrow i + 2$
  end if
end if

7 External PDF Pages Inclusion

8 Footnote and Citation/References

Some sample texts to illustrate the use of footnote[1]. Also we can use the url reference as footnote[2].

To add a reference of a research paper, we need to collect bibtex from google scholar and put this bibtex in the *.bib file. Then, we can add the reference as follows: (**?**) (**?**).

9 Miscellaneous

we publicly release the dataset for future research purposes at the following link: `https://git.io/JkW6V` or use the expanded URL[3]

10 Illustration of Section

10.1 This is Subsection:

10.1.1 This is Subsubsection:

11 Domain Specific Template Manipulation

IEEE Template `https://www.ieee.org/conferences/publishing/templates.html`.

[1] Footnte sometimes used as a provider of additional information
[2] https://github.com/nowshedcu/Personality-Traits-Detection-in-Bangla
[3] https://github.com/nowshedcu/Personality-Traits-Detection-in-Bangla