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 4th ©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

$$e_{t} = h_{t}w_{a}$$

$$a_{t} = \frac{\exp(e_{t})}{\sum_{i=1}^{T} \exp(e_{i})}$$

$$v = \sum_{i=1}^{T} a_{i}h_{i}$$

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

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

$$R_j$$
: if x_1 is A_{j1} and/or x_n is A_{jn}
then $Class = C_j$, $j = 1,, N$

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.

N. d. d.	Any-Type (Micro Avg.)						
Methods	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

```
Input: Input:
Output: Output:
Result: Write here the result
initialization;
while While condition do

instructions;
if condition then

instructions1;
instructions2;
else
instructions3;
end
end
```

```
else  \begin{aligned} & \text{if } i \leq 3 \text{ then} \\ & i \leftarrow i + 2 \\ & \text{end if} \end{aligned}
```

7 External PDF Pages Inclusion

8 Footnote and Citation/References

Some sample texts to illustrate the use of footnote¹. Also we can use the url reference as footnote².

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.

¹Footnte sometimes used as a provider of additional information

²https://github.com/nowshedcu/Personality-Traits-Detection-in-Bangla

³https://github.com/nowshedcu/Personality-Traits-Detection-in-Bangla