





# TeSum: Human Generated Abstractive Summarization Corpus for Telugu

# **Existing Corpora**

- Web-Scraped; assumption that good summaries are provided by the publishers.
- Collection of Highlights; often ungrammatical and incoherent
- Article contains only an image/video;
   Summary is just the caption
- Highlights from the beginning; initial sentences (prefixes) or lead-3 summaries

#### **Duplicate, Irrelevant Summaries:**

Text: మేషం :(అశ్విని, భరణి, కృత్తిక 1వపాదం) : మానసిక ఒత్తిడి ......పఠించడం మంచిది. [#tokens = 578 ]

**Translated Text:** Aries :(Ashwini, Bharani, Krittika 1vapadam) : Mental stress ......Good to recite.

Summary: "ఈ రోజు రాశిఫలాలు ఇలా ఉన్నాయి"

[#tokens = 5]

Translated Summary: "today's horoscope is:"

**Total Occurrences: 527** 

#### **Prefixes or Lead-N Summaries:**

**Text:** 2018 ఫిబ్రవరి 24న దుబాయ్ లో శ్రీదేవి అనుమానాస్పద స్థితిలో మరణించారు. అతిలోక సుందరిగా శ్రీదేవి ఇండియా మొత్తం తిరుగులేని క్రేజ్ సొంతం చేసుకుంది....పలు చిత్రాల్లో నటిస్తోంది.

Translated Text: On February 24, 2018, Sridevi died under suspicious circumstances in Dubai. Sridevi is an unstoppable craze for the whole of India as a celestial beauty....She is acting in many films.

Summary: 2018 ఫిబ్రవరి 24న దుబాయ్ లో శ్రీదేవి అనుమానాస్పద స్థితిలో మరణించారు. అతిలోక సుందరిగా శ్రీదేవి ఇండియా మొత్తం తిరుగులేని క్రేజ్ సొంతం చేసుకుంది.

Translated Summary: On February 24, 2018, Sridevi died under suspicious circumstances in Dubai. Sridevi is an unstoppable craze for the whole of India as a heavenly beauty.

### With TeSum, we ...

 Present a human generated, curated abstractive summarization corpus for Telugu, with a total of 20329 article-summary pairs

Training set: 16295 pairsDev set: 2017 pairs

■ Test set: 2017 pairs

• Propose a pipeline that crowd-sources summarization data and then aggressively filtered the content via: automatic and partial expert evaluation.

# Summary Creators: 347

■ # Raters : 03

- Demonstrate

   Improvement
   over XL-SUM
   and
   MassiveSumm
   (Telugu
   versions)
- Providebaselines withvarious SOTAmodels
- Propose

   automatic
   filtrations for existing scraped
   datasets

	XL-Sum	MassiveSumm	TeSum
Total Size	13025	119282	92941
Empty + Duplicate + Duplicate Summary	143	18733	652
Prefixes	3	30741	1330
Minimum Length	384	10399	4205
Compression <50%	10	1641	52802
Compression >80%	11920	46776	456
Abstractivity < 10%	0	6683	5942
Abstractivity > 80%	227	303	42
Human-Eval (TeSum)	-	-	7183
Final Valid	338	4006	20329

## **Human Evaluation**

- Randomly selected 200 samples from each dataset
- Each sample is scored between
   0-4, for each evaluation parameter.
  - Relevance: All or most of the relevant information contained in the article should be present in the summary.
  - Readability and Coherence:
     The summary should be coherent, readable and free of any grammatical errors.
  - Creativity: The summary should have novel sentential and phrasal structures.

	Average Scores			
	XL-SUM	MassiveSumm	TeSum	
Relevance	1	2	3	
Readability	3.5	2.9	3.27	
Creativity	0.98	1.58	3.28	

	# Samples with all parameters rated >=3			
	XL-SUM	MassiveSumm	TeSum	
Relevance	4	43	185	
Readability	176	144	188	
Creativity	12	51	170	