The Impact and Importance of Keyphrases in Building NLP Products

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**Identifying Keyphrases in Story Clusters**

NSTM: Real-Time Query-Driven News Overview Composition at Bloomberg (Bambrick et al., ACL 2020.)

**Related Entities:**

Apple CoreCard

**Related Keyphrases:**

Financial Products

**Applications**

**Observe News Trends**

Contextualizing Trending Entities in News Stories (Ponza et al., WSDM 2021.)

**Emerging & Trending Keyphrases**

**Time Series Analysis:** Compare Story Flow

**Time Series Analysis:** Search Trends over time

**Time Series Analysis:** Compare Story Flow

**Keyphrase Analytics:** Track Sentiment over time

**Improve Readability & Accessibility**

**Query Expansion**

**Query:** IBM, Stock

**Expanded Query**

IBM, Stock, option, derivative, security

**Our recent work on Keyphrases**

- Keyphrase Extraction as Sequence Labeling using Contextualized Embeddings. (Sahrawat et al., ECIR 2020.)
- Explore in-domain and generic contextual embeddings with BiLSTM + CRF & BiLSTM
- State-of-the-art performance on Keyphrase Extraction

- Learning Rich Representations of Keyphrases from Text. (Kulkarni et al., arXiv 2021. [Under Review]).
- Pre-train RoBERTa-based and BART-based architectures with novel Keyphrase-based pre-training objectives
- State-of-the-art performance on Keyphrase Extraction and Generation

**Check out our models on HuggingFace**

- [bloomberg/KBIR](https://huggingface.co/bloomberg/KBIR)
- [bloomberg/KeyBART](https://huggingface.co/bloomberg/KeyBART)
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