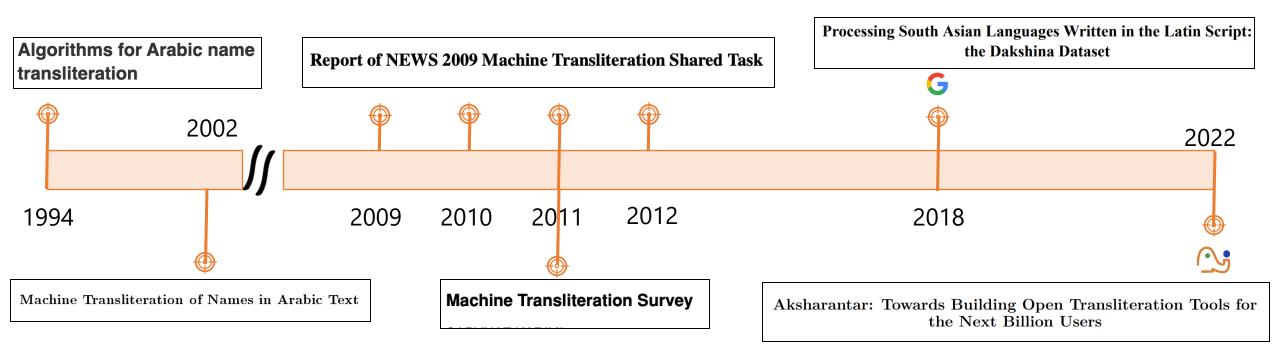
# Machine Transliteration

https://ai4bharat.iitm.ac.in/transliteration

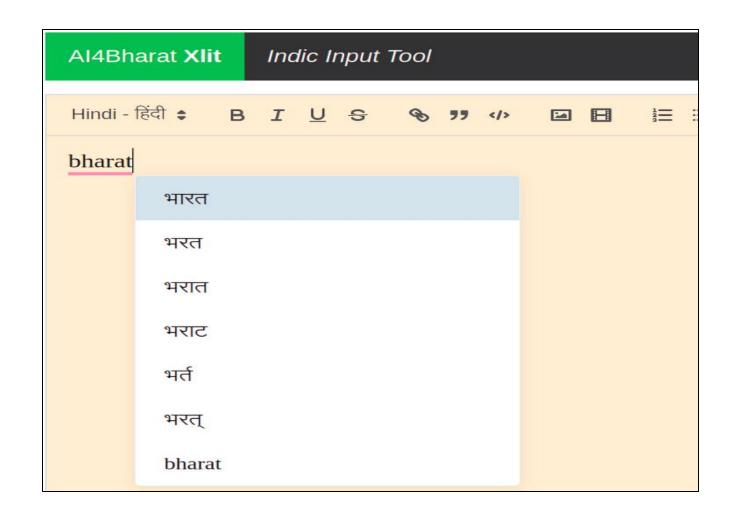
Workshop on 28th July 2022, IIT Madras

# Machine Transliteration: A brief history



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### The Problem

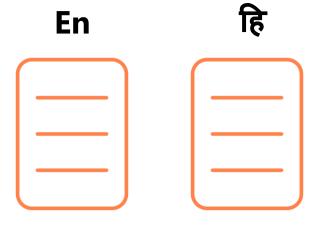


# **Enable romanised typing** in Indian languages

Al4Bharat, IIT Madras

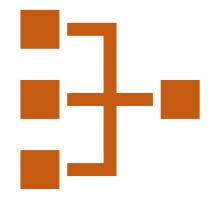
## Our contributions

#### **DATA**



A large number of parallel sentences words En and Indic languages mined from monolingual and parallel corpora

#### **MODELS**



Large scale joint models with innovations specific to Indic languages

#### **EVALUATION**

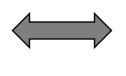


Robust evaluation with diverse benchmarks for 20 languages

# Mining data at scale

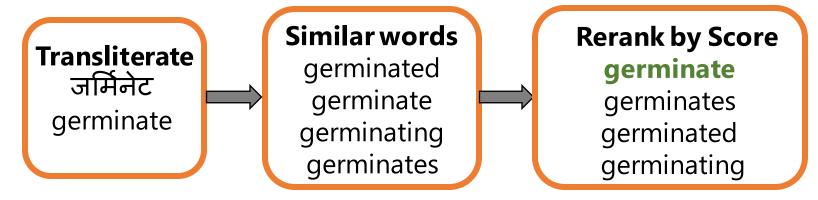
**Samanantar** 

India will wear the orange jersey in match against England on June 30



टीम **इंडिया** 30 जून को विश्व कप मैच में इंग्लैंड के खिलाफ नारंगी जर्सी में खेलेगी

**IndicCorp** 



Constitutes 90% of total mined data

# Large scale manual data collection



Collected 103k pairs in 19 languages





Different types of Indic words Romanized



68 language experts across India



**Built-in Automatic** Transliteration validator

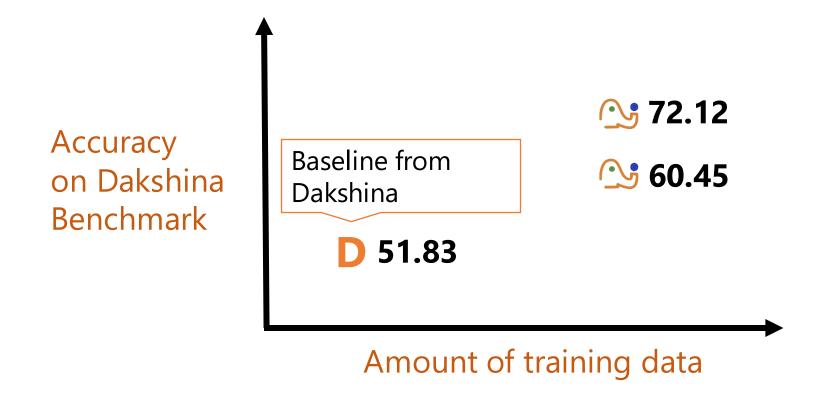
## Model







## Results



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