AlpacaTag: An Active Learning-based Crowd Annotation Framework for Sequence Tagging

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http://inklab.usc.edu/AlpacaTag



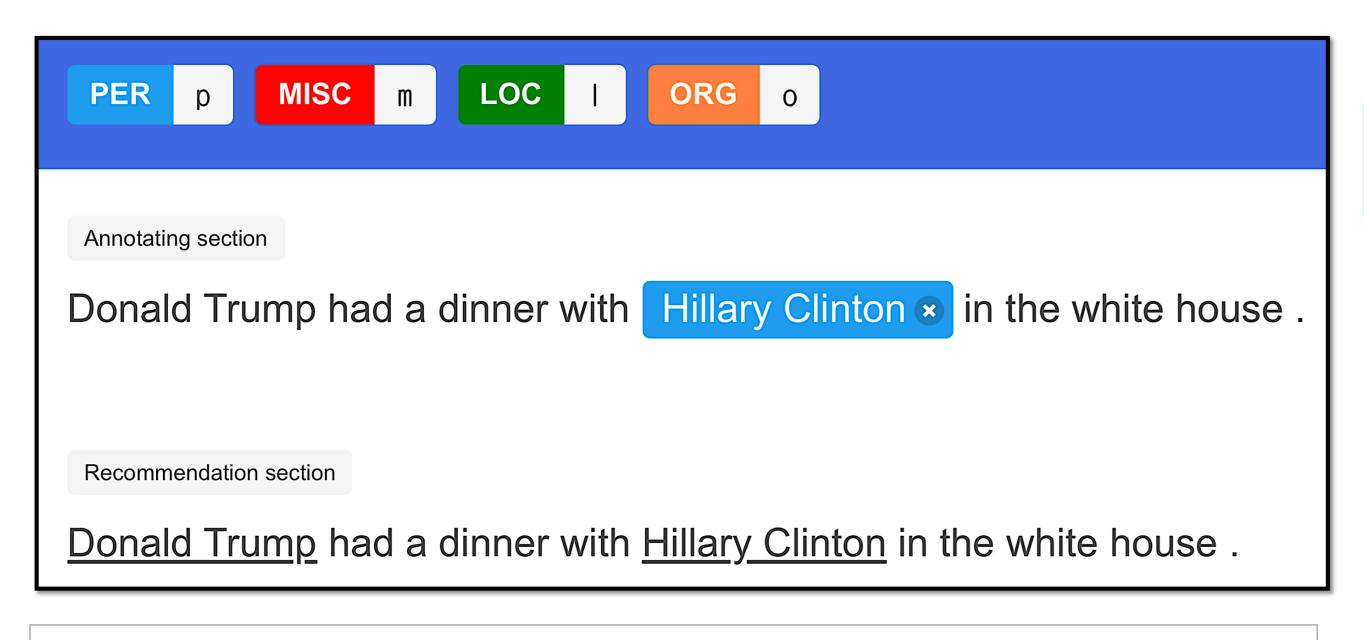
Easy-to-use Intelligent Recommendations



(a) the sentence and annotations are at the upper section; tagging suggestions are shown as underlined spans in the lower section.

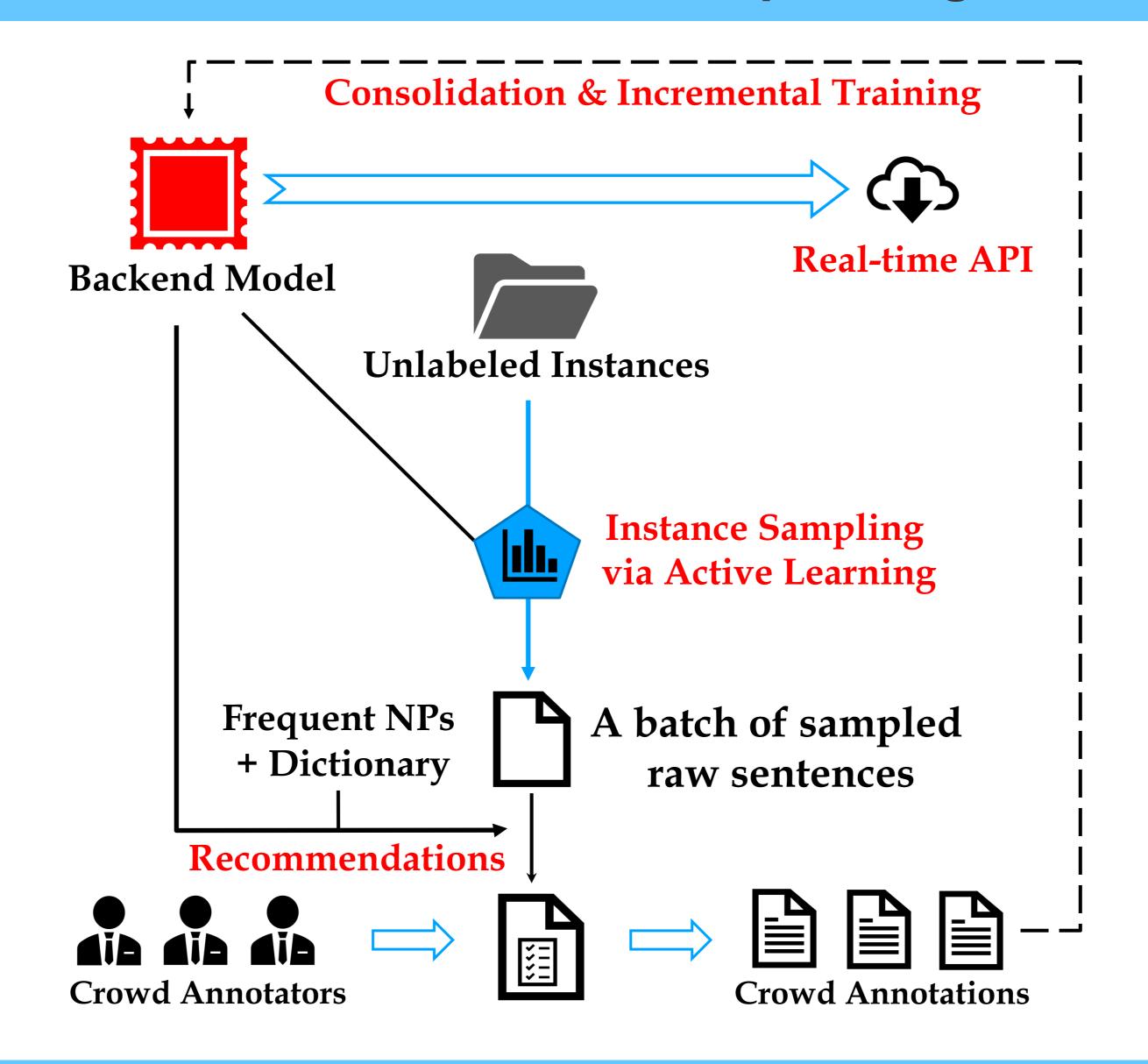


(b) after click on a suggested span, a floating window will show up near for confirming the types (suggested type is bounded with red line).

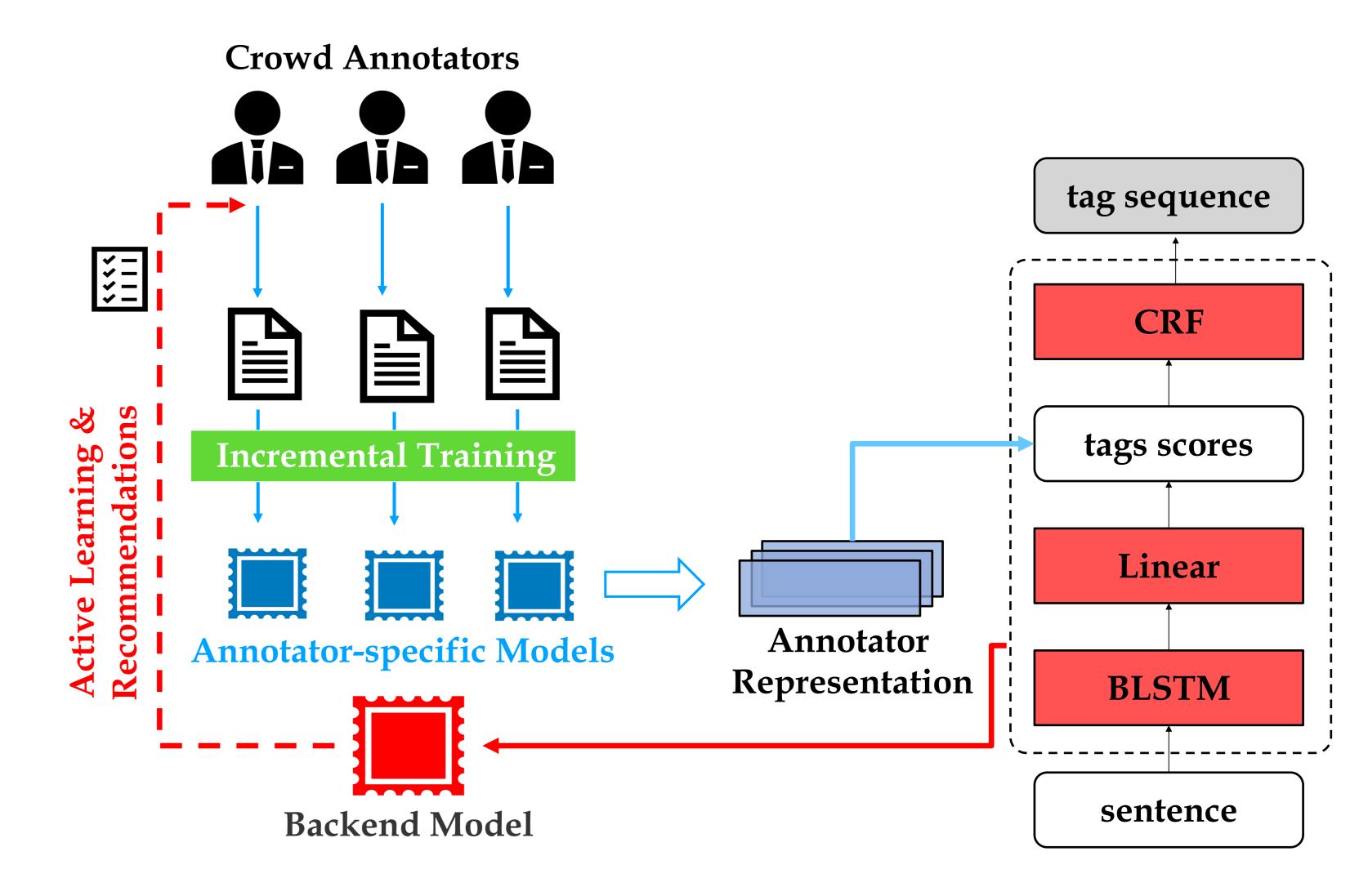


(c) after click a suggested type or press a shortcut key (e.g. 'p'), confirmed annotations will show up in the upper annotation section.

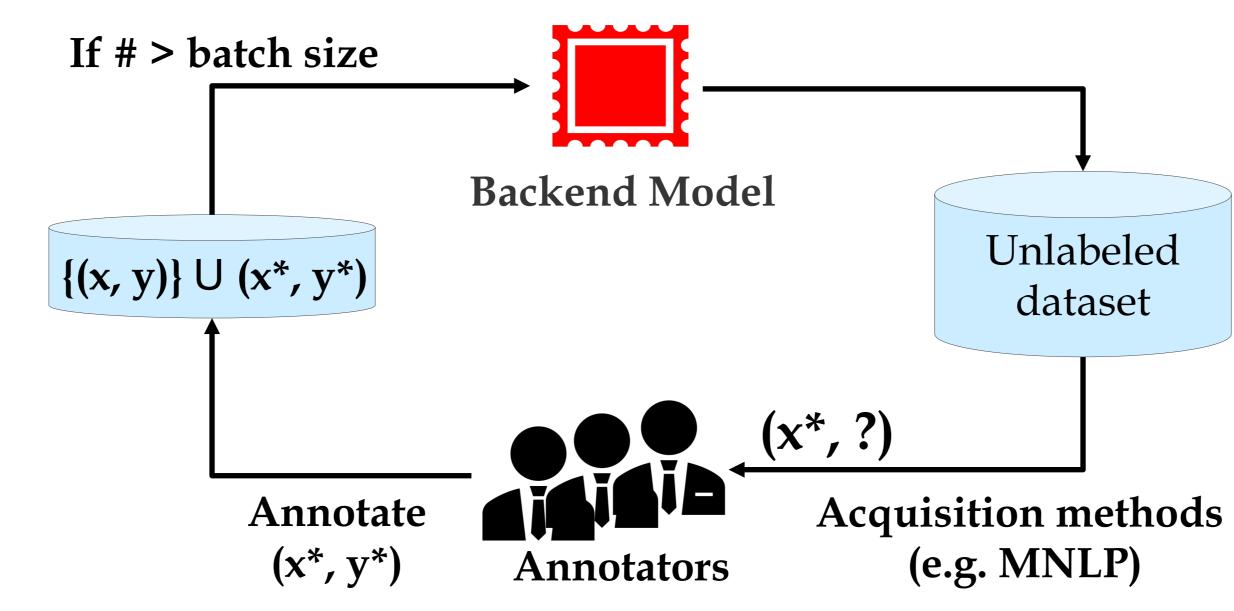
Overall Workflow of AlpacaTag



Learning Backend Model with Consolidation



Active Learning for Instance Sampling



Key Features

Active Intelligent Recommendation

Dynamically suggesting annotations and sampling the most informative unlabeled instances.

Annotation Consolidation

Enhancing real-time inter-annotator agreement by consensus networks.

Real-time model deployment

Users can deploy their models in downstream system.

Performance Evaluation

