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AI-Based Text Mining Platform for Information Collection and Analysis in Drug Discovery

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Collecting and integrating vast amounts of life science information is crucial for AI-based drug development. To address this need, the text mining platform offers advanced technology that automatically extracts entities such as genes, diseases, drugs, and proteins from the latest PubMed articles, analyzing their relationships.

Utilizing ETRI's patented technology and the BERT AI engine, the platform conducts Named Entity Recognition (NER) and Relation Extraction (RE), and visualizes the analyzed data in a network format. This allows researchers to easily identify the information necessary for drug target exploration and candidate compound discovery, providing valuable insights into drug target identification, candidate compound discovery, adverse drug reaction prediction, and metabolic studies.

Furthermore, text mining is highly effective at processing large volumes of data quickly, uncovering potential patterns or correlations that might have been overlooked in previous studies. By automatically extracting hidden information from unstructured data, it enhances the depth of analysis, helping researchers develop new hypotheses or validate existing theories.

With these advanced text mining capabilities, the platform accelerates every stage of drug development and unlocks new possibilities for life science research.