Accelerating Drug Discovery: 90% Accuracy Achieved with AI-Driven Biomedical Data Curation

Challenge

Pharmaceutical companies face the challenge of rapidly annotating vast volumes of biomedical data required to train AI models. The complexity of mapping biomedical terminology to standard ontology IDs further complicates the process, necessitating domain expertise and precise entity identification.

Approach

We deployed a workflow tool equipped with validation rules and an annotation framework, supported by subject matter experts in life sciences. The solution facilitated accurate biomedical entity identification, ontology mapping, and data normalization, ensuring high-quality datasets for AI model training.

Impact

80%	Achieved over 80% automation in data curation processes.
5,000	Accelerated pre-clinical drug discovery by processing over 5,000 abstracts with high domain complexity
90%+	Attained 90%+ accuracy in entity annotation and data curation.

About Straive

Straive is a market-leading content technology enterprise that provides data services, subject matter expertise (SME), and technology solutions to multiple domains, such as research content, eLearning/EdTech, and data/information providers. With a client base scoping 30 countries worldwide, Straive's multi-geographical resource pool is strategically located in seven countries - the Philippines, India, the United States, Nicaragua, Vietnam, the United Kingdom, and Singapore, where the company is headquartered.

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