

Datasheet

State-of-the-art Life Sciences Artificial Intelligence platform for understanding patterns in text

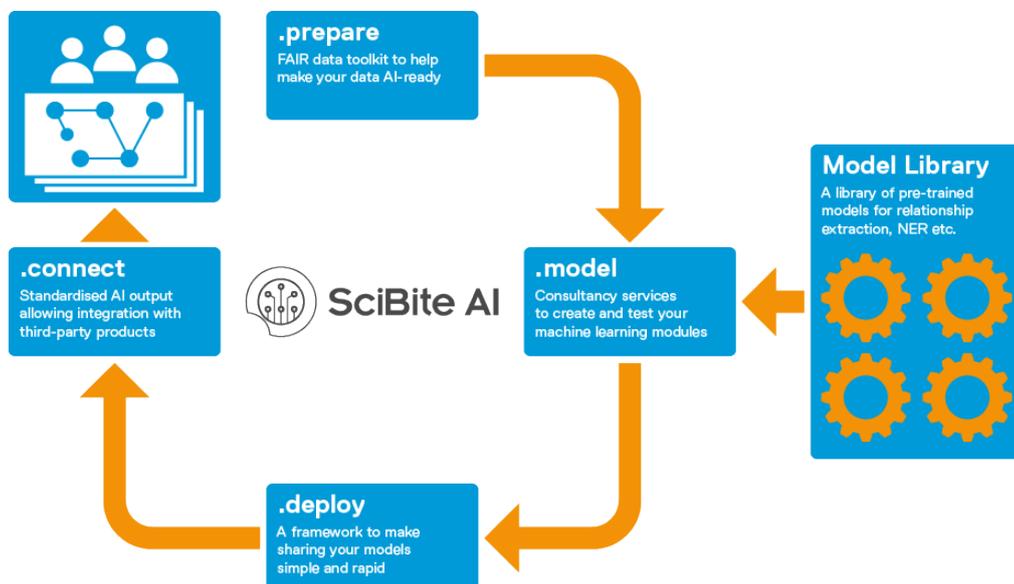
Analysis of the ever-increasing volume of big data represents a huge challenge to the pharmaceutical and healthcare sectors, faced with expanding costs of bringing a new drug to market. SciBite AI combines deep learning Artificial Intelligence models with our powerful semantic algorithms, enabling customers to exploit and rapidly use life science data and in research and development.



- ◆ **POWERFUL**
Combine natural language processing (NLP) capabilities of machine learning with NER algorithms and industry leading ontologies
- ◆ **INTELLIGENT**
Learn de novo terms, synonyms and relationships between biomedical entities
- ◆ **ADAPTIVE**
Combine models to answer multiple scientific questions

SciBite AI Platform

SciBite AI provides a framework for leveraging deep learning models alongside our award-winning semantic technologies to unlock insights into your data.





SciBite AI .prepare

Unlock unstructured text using SciBite's standards-based semantic tools that enable Findable Accessible Interoperable Reusable (FAIR) across the entire enterprise, a crucial pre-requisite to obtaining the high-quality training data required by machine learning models.



SciBite AI .model

Work with our experts to create training/test sets based on our world-class ontologies to train models in workflows such as AWS Sagemaker.



SciBite AI .deploy

Deploying SciBite AI creates a level of abstraction that requires only a base knowledge of common REST APIs or a UI to use the ML approaches. Our solution offers task focused queries using a REST API framework that can be deployed and exploited easily. It is also readily integrated into TERMite.

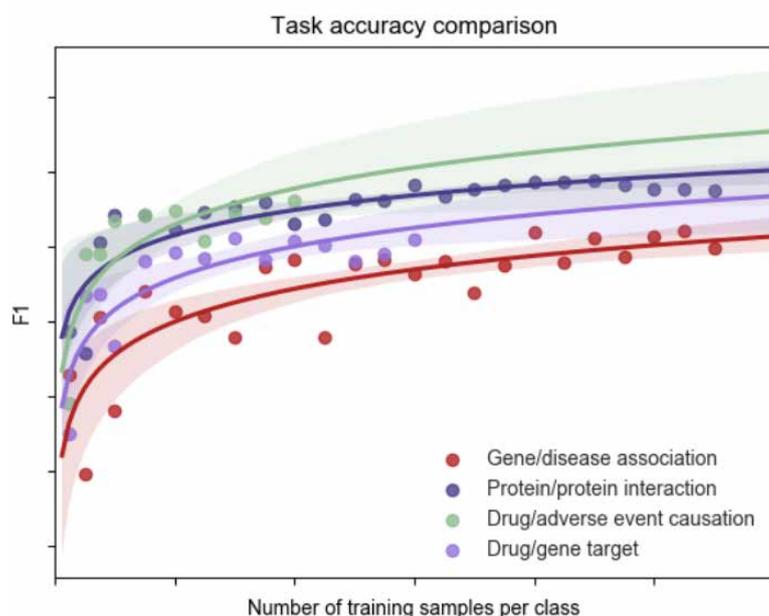


SciBite AI .connect

Fully exploit the output of machine learning by connecting results to other data using TERMite and CENtree to align to ontologies and vocabularies. This alignment allows for the deeper exploitation of semantics or deployment in knowledge graphs.

Smart Tooling

SciBite's series of NER and Relationship Extraction models use a combination of deep learning models such as BioBERT, our industry leading semantic technology, proprietary pipeline methodology and specialist training data to perform a wide variety of functions:

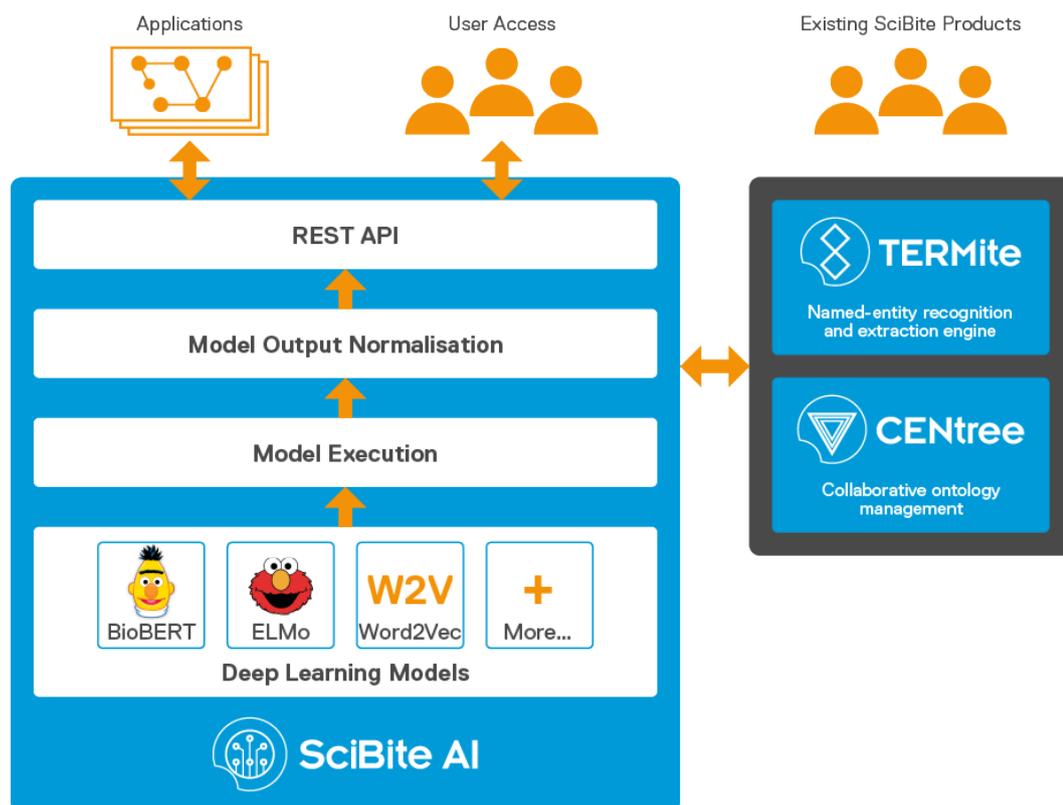


- Named Entity Recognition (NER): Identifying concepts not covered by existing vocabularies;
- Context-Specific Detection: The detection of concepts only in certain contexts. Examples include new vs pre-existing conditions and the anatomical sites of tumours;
- Relationship Identification: Identify complex relationships between concepts such as protein-protein interactions, adverse events during clinical trials, etc.;
- Assisted ontology development: The use of AI to suggest new terms, identify inconsistencies and accelerate ontology development and quality control;
- Predictors: Spot patterns in data that help predict future outcomes;
- Clustering and classification: Group documents and concepts based on their underlying content or data relationships.

Deploy with Ease

Modern NLP machine learning uses models such as BioBERT, ELMo and Word2vec, along with python code and domain specific terminology, all of which can make installation and integration challenging.

SciBite AI is built to be configurable and easily deployable, with an API that simplifies access to users and applications.



About SciBite

SciBite is an award-winning semantic software company offering an ontology-led approach to transforming unstructured content into machine-readable clean data. Supporting the top 20 pharma with use cases across life sciences, SciBite empowers customers with a suite of fast, flexible, deployable API technologies, making it a critical component in scientific data-led strategies. Contact us to find out how we can help you get more from your data.

Head office:

SciBite Limited
 BioData Innovation Centre
 Wellcome Genome Campus
 Hinxton, Cambridge CB10 1DR
 United Kingdom

 www.scibite.com
 contact@scibite.com
 LinkedIn: SciBite
 Twitter: @SciBite
 +44 (0)1223 786 129