



Rancho Artificial Intelligence Services

Rancho full-cycle AI applications include data preparation, model training, and insights generation. We customize our data science workflows to address unique research needs, including support for clinical trials, dealing with unstructured text and multi-dimensional omics datasets.

By analyzing large volumes of data using state-of-the-art AI models, our clients gain valuable insights that can be used to accelerate scientific progress, improve research efficiency, and drive innovation.





GETTING TRAINING DATA

Data curation is our core business. We are platform-agnostic and have robust workflows to extract data from sources such as

- Scientific publications
- Clinical trial protocols,
- Toxicology and pathology reports,
- and many more

APPLYING AI TO GET INSIGHTS

LLM & NLP Techniques

A combination of large language models (LLM) and classical NLP techniques were used to extract valuable information from pathology reports

Embedding Algorithm

An embedding-based publication scoring algorithm enabled scientists to easily find relevant information based on incomplete information

Embedding Mapping

Rancho terminology mapping solution uses embedding, LLM and fuzzy to construct a semantic layer and enrich private datasets

Building NLQ Applications

We are building Natural Language Query (NLQ) applications for our customers with AI-generated queries and scoring in diverse corporate data environments



TRAINING AI/ML

Rancho has experienced data scientists and SMEs who can build tailor-made ML/AI models:

- Predictive toxicology
- Survival analysis
- Cellular phenotype classification
- Disease signature analysis
- Patient stratification for clinical trials,
- Drug repurposing



VALUE

At Rancho BioSciences we empower businesses with a comprehensive suite of AI services through an expertly-crafted synergy of domain experts, data scientists, and data engineers. Our full-cycle AI solutions span every essential aspect – from data collection to robust model training, seamlessly merging cutting-edge technology and industry-specific knowledge. Together, we unlock the potential hidden within your data, enabling you to accelerate growth and drive innovation.