Harnessing the Power of Machine Learning and Artificial Intelligence (AI) to Change the Way We Approach Large, Complex Research Questions

Station 6: Machine Learning (ML)

Part of literature review

Key Concepts

• Machine learning is a **fully supervised method** that uses a training dataset to predict relevance on an unclassified corpus.

• **Training data** can be input at one time (passive ML) or iteratively (active ML).

How it Works

• Develop training dataset of manually classified results. Both positive and negative results are needed.

• ML algorithms use training dataset to predict relevance of each record in unclassified corpus.

Use Case(s)

• Prioritize literature search results and reduce the volume that must be screened manually.

• Use as an “insurance step” to review a portion of studies excluded automatically by other methods.

Similar Tools or Approaches

Robot Analyst | DistillerAI | Colandr | Rayyan | Abstrackr