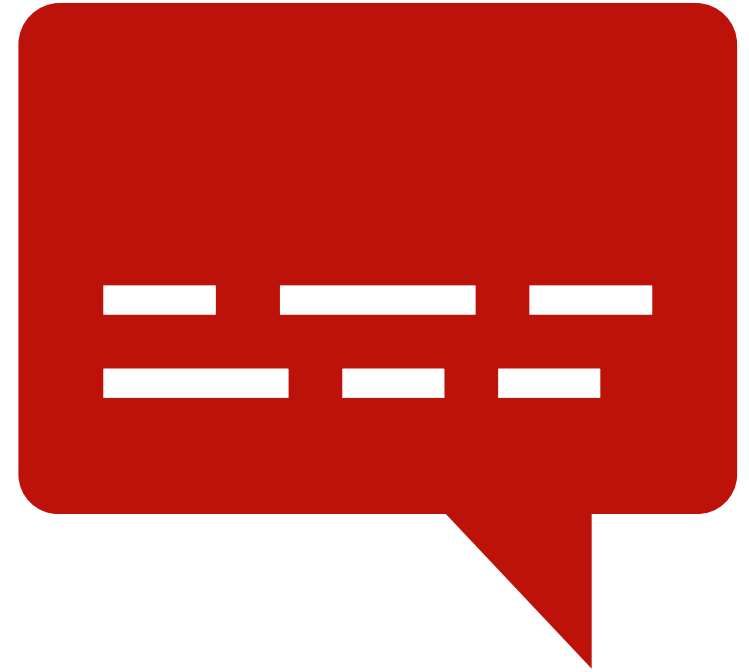

Task Types in PEFT Config for Legal Case Predictions

Best Practices for Legal Case Predictions

Overview of PEFT Task Types

PEFT optimizes large language models (LLMs) for specific tasks, including:

- Sequence Classification
- Token Classification
- Question Answering (QA)
- Text Generation
- Text-to-Text Tasks



Sequence Classification



Description:Classifies sequences into predefined categories.



Ideal for binary/multi-class predictions.



Use Case in Legal Predictions:Predicting legal case outcomes (e.g., guilty/not guilty).



Useful when analyzing case histories and predicting the court's decision.



Why It's Best for Legal Predictions:Legal cases often involve a decision that can be classified.



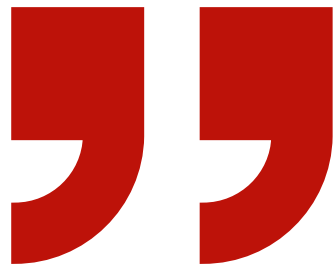
Allows AI to predict outcomes based on facts presented.

Token Classification



- **Description:**
 - Assigns labels to individual tokens in a text.
 - Commonly used for Named Entity Recognition (NER).
 - **Use Case in Legal Predictions:**
 - Extracting key legal entities from documents (e.g., names, dates, case numbers).
 - Useful for identifying relevant sections of legal texts or evidence.
 - **Benefits:**
 - Enhances document processing by automating entity extraction.
 - Simplifies analysis of large legal documents.
-

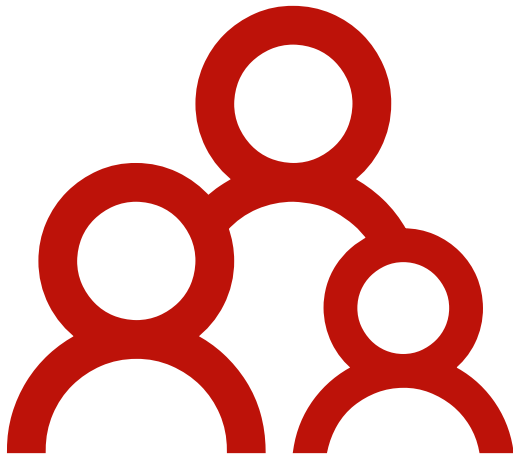
Question Answering (QA)



- **Description:**
 - Answers specific questions based on provided text.
 - Ideal for extracting precise information from large corpora.
 - **Use Case in Legal Predictions:**
 - Retrieving information from case laws, statutes, or legal documents.
 - Can assist legal professionals by quickly answering case-related questions.
 - **Benefits:**
 - Improves efficiency in legal research by answering legal queries.
 - Reduces manual effort in searching through documents.
-

Text Generation

- **Description:**
 - Generates coherent text based on a given input prompt.
- **Use Case in Legal Predictions:**
 - Automated generation of legal documents, summaries, and case briefs.
 - Helps draft initial versions of legal arguments or responses.
- **Benefits:**
 - Saves time on document drafting.
 - Ensures consistency in legal text generation.



Text-to-Text Tasks



- **Description:**
 - Converts one form of text into another (e.g., summarization, translation).
 - **Use Case in Legal Predictions:**
 - Summarizing legal briefs, cases, or judgments.
 - Simplifies complex legal texts for easier analysis or presentation.
 - **Benefits:**
 - Useful for creating concise versions of lengthy legal documents.
 - Improves accessibility of legal content by summarizing technical language.
-

Best Task Type for Legal Case Predictions



- Best Fit: Sequence Classification
 - Legal case predictions often require outcome classification (e.g., guilty/not guilty).
 - Sequence classification models are highly effective in structuring and predicting case results based on historical data.

Conclusion

Sequence classification, combined with LoRA fine-tuning, is the best task type for accurate legal case predictions.