LAWBOT

Revolutionizing contract review with AI question understanding



NLP

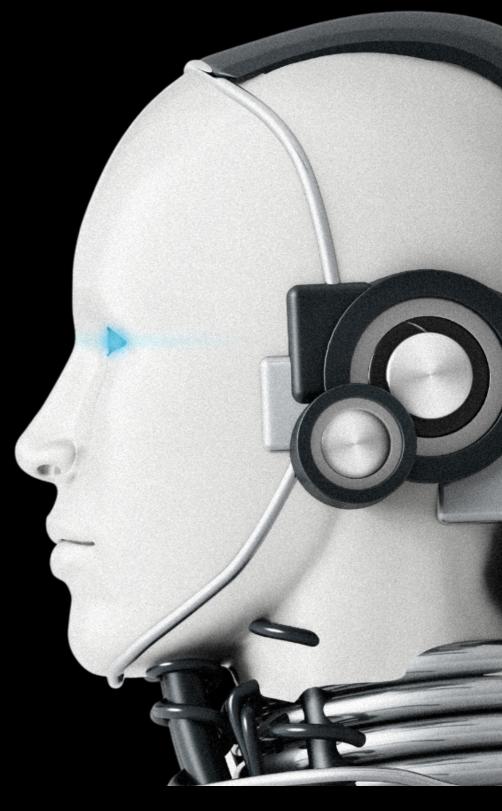
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What is Lawbot?

Lawbot is a revolutionary app that uses NLP (Natural Language Processing) to assist individuals and businesses in answering legal questions related to their contracts.

The app's main feature is its Al-powered question-answering capability. Users can **upload their contracts** to the app and **ask questions** about specific clauses or terms. Lawbot then processes the text and data within the contract and **answers** the user's query.

How does it work?

Lawbot uses a model called **roBERTa-legal**. This model has been explicitly fine-tuned for extracting answers from legal contract questions using the PyTorch framework, resulting in a highly accurate and effective tool. The model's ability to accurately identify the answer's specific start and end positions gives users a high degree of confidence in the results.

Lawbot's answering extraction capabilities were improved by fine-tuning it using **CUAD** (Contract Understanding Atticus Dataset), a dataset of specific legal contract questions and answers. Additionally, the **RobertaTokenizerFast** was utilized to assist with tokenization.

Now that the Lawbot model has been fully trained, users can easily upload their contracts and allow Lawbot to analyze the text. Once the contract has been scanned, users can pose questions about it in natural language, and Lawbot will promptly extract the answer from the contract and print it for the user.



For detailed instructions on how to use Lawbot, please refer to the user manual in the upcoming section.

User Manual

Step 1: Run Lawbot

Open the terminal and run the python file called run_lawbot.py. It is recommended to have GPU acceleration enabled to get faster results. It can still work without it, but the response time will be slower.

Step 2: Upload your contract

After running the python file, you can submit your contract. To do this, type the file name. Remember to specify the path of the .txt file, or type the name if it is in the same path as the script. Also, note that this current version can only read .txt files.

Step 3: Ask a Question

After submitting your contract, you can type your question in the terminal. Remember that only one question can be asked per run.

Step 4: Receive an answer

You will receive the answer after you click enter and send your question. Note that it might take some seconds to respond.

Repeat, enjoy!