Platform for Legal Text Elaboration in the Peruvian Judicial System using Natural Language Processing Algorithms

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Abstract:

The Peruvian judicial system is characterized by a complexity that makes it difficult for citizens to access legal procedures. Faced with this problem, a virtual platform has been developed that uses artificial intelligence to create legal documents in an automated manner. This service, available on demand and by subscription, seeks to simplify legal processes by reducing the need to hire specialized lawyers and lowering associated costs. The system is based on large language models (LLM) and natural language processing (NLP) algorithms, which are constantly validated by expert lawyers. The results obtained so far show a working prototype that promises to facilitate the way Peruvians interact with the judicial system.

Keywords:

Text Generation, Large Language Model, Judicial System, Legal documents.

Components of Abstract:

Context: The Peruvian judicial system.

Problem: Difficulty in carrying out legal procedures before Peruvian courts, due to the complexity of the laws, the high costs of specialized lawyers and state bureaucracy.

Solution: platform to offer an automatic legal text generator through software as a service, with two modalities of use: on demand (citizens) and monthly or annual membership (law firms).

Method: Large language model (LLM) based on Transformers and natural language processing (NLP) algorithms, with human lawyer specialist validation.

Result: A prototype of a virtual platform to manage the service of automatic elaboration of legal documents for citizens and lawyers.