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| **Inventory of supplemental materials** | | | |
| File name | Specific content | | Corresponding parts in the manuscript |
| Knowledge graph | Chroma-formatted vectorized CCLR knowledge graph | | Section 3.1 (Fig. 3) |
| Codes | Codes for original large language models | Codes for original text-davinci-003, GPT-3.5-turbo, GPT-4 | Section 3.2 |
| Codes for original ERNIE-Bot 4.0, Qianfan-Chinese-Llama-2-7B and Llama-2-70b | Section 3.2 |
| Codes for original ChatGLM2-6B and ChatGLM3-6B | Section 3.2 |
| Codes for large language models integrating knowledge graph | Codes for text-davinci-003, GPT-3.5-turbo, GPT-4 with KG | Section 3.2 |
| Codes for ERNIE-Bot 4.0, Qianfan-Chinese-Llama-2-7B and Llama-2-70b with KG | Section 3.2 |
| Codes for ChatGLM2-6B and ChatGLM3-6B with KG | Section 3.2 |
| Table S1 QA dataset for Chinese Construction Laws and Regulations | Experts to help determine the dataset labels | | Section 3.3 |
| Dataset for testing large language models | | Section 3.3 (Fig. 5) |
| Table S2 The layer of Chinese Construction Laws and Regulations | Triplets of domain in the data layer | | Section 3.1 (Fig. 2) |
| Triplets of subdomain in the data layer | | Section 3.1 (Fig. 2) |
| Triplets of clause in the data layer | | Section 3.1 (Fig. 2) |
| Table S3 Wilcoxon test results of different LLMs | Wilcoxon test results in different LLMs | | Section 4.1 |
| Wilcoxon test results for different LLMs in various domains | | Section 4.2 |
| Wilcoxon test results for different domains | | Section 4.2 |
| Wilcoxon test results for different LLMs in single-answer | | Section 4.3 |
| Wilcoxon test results for different LLMs in multi-answer | | Section 4.3 |