



AI Judge Assistant

AI-Powered Judgment & Contract Analysis

International Arbitration · Litigation · Contract Review

Lord Denning

Lord Bingham

Lord Hoffmann

Lord Neuberger

Prof. Treitel

Fictitious Judgment

Contract Analysis

Arbitration
& Litigation

Multi-Jurisdiction

Fitch
Logic Appendix

POWERED BY

DeepSeek V4 Pro

via OpenRouter

OPEN SOURCE MODEL · FREE API KEY

PUBLISHED BY

KCE KRAUS CONSULTING & ENGINEERING — KEYPOINTPROJECTS

Vienna · Durban · London · Hong Kong · Singapore

FREE SOFTWARE FOR STUDENTS OF LAW · Requires OpenRouter API Key (Free)

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The Challenge & The Solution

Why AI-assisted legal analysis matters for education

The Problem

Legal education depends on the ability to **read, understand and apply case law** — yet most law students have limited access to the reasoning of great judicial minds outside of assigned case reports.

Contract review is equally demanding: identifying invalid clauses, unfair terms, jurisdictional conflicts and enforcement risks requires years of practice experience most students simply do not yet have.

International arbitration adds further complexity — the New York Convention, Brussels Recast, conflict of laws and institutional rules create a matrix that even experienced lawyers navigate carefully.

LEARNING GAPS

Judicial reasoning

students rarely see step-by-step judicial logic

Contract risk

identifying unenforceable clauses requires experience

Cross-border law

multi-jurisdiction analysis is rarely taught practically

Fitch-style logic

formal legal reasoning appendices are seldom practised

The Solution

The **KCE AI Judge Assistant** places the analytical power of history's greatest legal minds — Lord Denning's vivid clarity, Lord Bingham's precision, Lord Hoffmann's commercial insight — directly in the hands of every law student.

Powered by **DeepSeek V4 Pro** via OpenRouter, the tool reads a contract plus the parties' statements, then delivers a complete, structured judgment in the chosen judicial style — covering validity, facts, issues, rules, application and conclusion.

For contract review it produces a **detailed scholarly analysis** covering validity, fairness of terms, unusual clauses, party risks and improvement recommendations — all in seconds.

KEY BENEFITS

Five judicial styles

Denning, Bingham, Hoffmann, Neuberger, Treitel

Full judgment output

validity · facts · issues · rule · application · conclusion

Fitch logic appendix

numbered premises and formal deductions appended

Contract-only mode

deep contract analysis without delivering a judgment

"Every law student deserves a judge. Now every student has one."

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Features & How It Works

Capabilities · Judicial Styles · Workflow

CORE CAPABILITIES

■ Five Judicial Styles

Choose from Lord Denning (vivid, moral), Lord Bingham (precise, humane), Lord Hoffmann (commercial purpose), Lord Neuberger (logical, balanced) or Prof. Treitel (academic, contractual doctrine). Each produces a distinctly different but equally rigorous judgment.

■ International Arbitration

Supports cross-border cases with New York Convention analysis, Brussels Recast enforcement, conflict of laws, and institutional arbitration rules (ICC, LCIA, SIAC, etc.) fully reflected in the output.

■ Fitch-Style Logic Appendix

Every judgment ends with a numbered formal logic appendix — premises, inferences and conclusions — in the Fitch notation style taught in legal reasoning and philosophy of law courses.

■ Complete Judgment Structure

Every judgment follows the full IRAC framework: validity of contract, statement of facts, identification of issues, rule of law with citation, step-by-step application, and a clear conclusion — ready to study.

■ Contract-Only Analysis

Without any dispute statements, the tool performs a deep scholarly analysis: validity, UCTA 1977 fairness, unusual or unenforceable clauses, party risks, and redraft recommendations.

■ Case Management

Save and reload entire cases (contract, statements, settings) as named folders. Load .pdf or .docx documents directly. Output PDFs are auto-timestamped and saved beside the case folder.

WORKFLOW — FULL JUDGMENT IN 5 STEPS

1

Configure

Set judicial style, seat, proceeding type, party nationalities, governing law and language.

2

Load Documents

Open contract, claimant and defendant statements from PDF, Word or paste directly.

3

Set API Key

First run: enter your free OpenRouter key (sk-or-v1-...). Saved securely — never asked again.

4

Generate

Click **Generate Judgment**. DeepSeek V4 Pro analyses the case — typically 30–90 seconds.

5

Receive PDF

A formatted, timestamped PDF is saved to your case folder. Open and study immediately.

Getting Started

Installation · API Key · First Judgment

INSTALLATION

Requirements

Python 3.8+ Free — python.org

openai `pip install openai`

fpdf2 `pip install fpdf2`

pdfplumber `pip install pdfplumber`

python-docx `pip install python-docx`

python-dotenv `pip install python-dotenv`

One-line install

```
pip install openai fpdf2 pdfplumber python-docx python-dotenv
```

Launch

```
python judge_gui.py
```

Or simply **double-click** the file in Windows Explorer — the GUI opens immediately.

Windows .EXE Available

A ready-to-run .exe is available for Windows users who prefer not to install Python.

Contact KCE to obtain the compiled application:
m.kraus@keypointprojects.co.za

OBTAINING YOUR OPENROUTER API KEY (FREE)

1 Sign up

Go to openrouter.ai and create a free account. No payment required to start.

2 Go to Keys

In your dashboard navigate to **Keys** and click **Create Key**.

3 Name & copy

Name it 'KCE AI Judge', click Create, and copy the key immediately — shown only once. Begins with **sk-or-v1-...**

4 Enter in app

On first launch the app prompts for your key. Paste it and click **Save & Close**. Stored locally — never shared.

5 Credits

Add a small credit (a few dollars) for sustained use. Each judgment costs approximately **USD 0.002–0.01**.

Typical cost per judgment

DeepSeek V4 Pro: approx. USD 0.002–0.01 per case

Full semester of 50 cases: approx. USD 0.10–0.50

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AI-GENERATED OUTPUT. Judgments are generated by DeepSeek V4 Pro (via OpenRouter) and may contain errors, omissions or hallucinations. All output must be independently verified by a qualified lawyer before any reliance is placed upon it.

OPENROUTER API KEY REQUIRED. This software calls the OpenRouter API. Users must register at **openrouter.ai** and obtain their own API key. Standard OpenRouter usage charges apply. KCE Kraus Consulting & Engineering is not affiliated with, endorsed by, or in any way connected to OpenRouter or DeepSeek.

ABOUT THE PUBLISHER

KCE Kraus Consulting & Engineering — Keypointprojects

is a multidisciplinary advisory firm at the intersection of engineering precision and strategic management consulting.

With offices in Vienna, Durban, London, Hong Kong and Singapore, KCE serves clients across infrastructure, energy, finance, law and government on complex, cross-border engagements.

The AI Judge Assistant and Legal Logic Analyser are developed by KCE's **Keypointprojects Digital Division** as part of a programme to bring engineering-grade tools and AI to legal education.

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Windows .EXE Application

A compiled .exe will be sent to registered users.

Contact KCE to obtain the application file:

m.kraus@keypointprojects.co.za

KCE AI Judge Assistant — Free for Students of Law.

Requires OpenRouter API key (free) · openrouter.ai

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