Team Name : Maveriks

Problem Statement : Generative AI Large Language Models Fine Tuned For Legal Practice Platform

Problem Statement:

Empower legal professionals with cutting-edge Generative AI technology. Participants are tasked with fine tuning an innovative Legal Practice Platform powered by Large Language Models (LLM) tailored to meet the specific needs and challenges faced by legal professionals.

Agenda

OBJECTIVE

USE CASE

WORKFLOW

PLATFORM FEATURES

IMPLEMENTATIONS

ARCHITECTURAL

DIAGRAM

OBJECTIVE

Empower legal professionals with cutting-edge Generative AI technology. Participants are tasked with fine tuning an innovative **Legal Practice Platform powered by Large Language Models (LLM)** tailored to meet the specific needs and challenges faced by legal professionals.

USE CASE

- A Critical scenario for prioritizing the cases for the judgment & hearing.
- Analyzing a Case's severity with not just a single parameter but multiple constraints
- Efficient time utilization & slot allocation.
- Augmenting the existing DCM approach with Intel® AI Analytics Toolkit
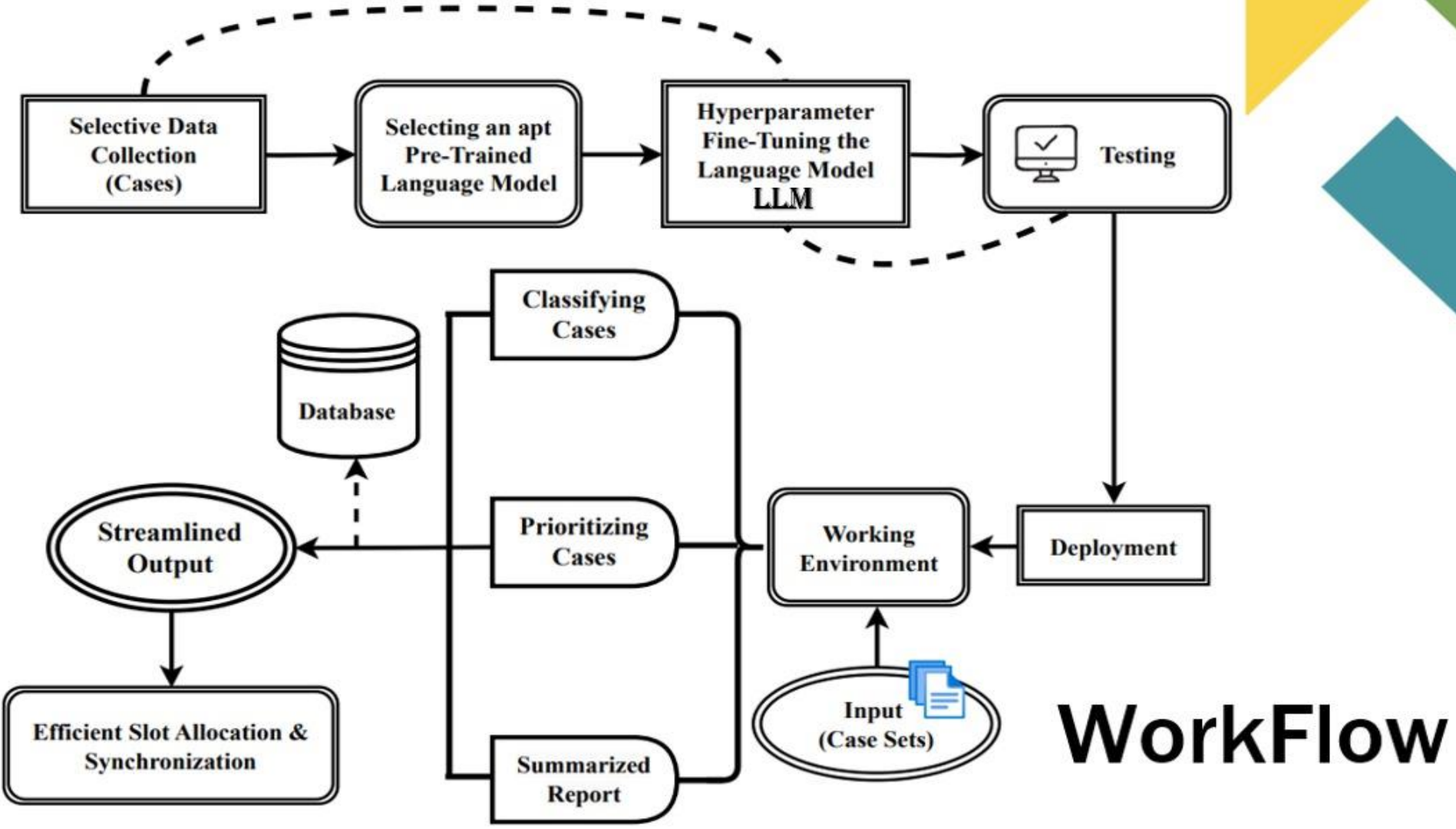
Platform Features

Highlight key features:
- Intel® AI Analytics Toolkit Integration
- Document Understanding and Summarization
- Legal Research Optimization
- Case Outcome Prediction
- Contract Review Automation
- Client Communication Enhancement

Implementation Details

Queueing the cases for the hearing and judgement has always been very hectic, adopting the existing DCM systems is neither considered to be reliable or state-of-the-art approach. We propose an Augmented way of streamlining the cases by Hyperparameter Fine-Tuning a Pre-Trained Language Model, in other words an enhanced Artificial Intelligence model   that is Specialized in the field of Judiciary; Assists & Plots our flow of work i.e. a Large language Model (LLM) that Classifies the case's Severity & urgency w.r.t. multiple parameters defined.

ARCHITECTURAL DIAGRAM

SCREENSHOTS OF Intel® DEVELOPMENT CLOUD ACCOUNT

Account Settings

Your Developer Cloud Account

Cloud Account ID: 845917453649   **Tier:** Standard

Standard tier includes:

- Explore and evaluate the latest Intel® AI products.
- Develop AI skills.
- Access cutting edge learning resources.
- Get support from the Intel community.

Not included:

- Early prerelease hardware
- AI and machine learning software toolkits
- Billed subscription for teams
- Use CPU, GPU, and AI accelerators
- Intel premium support

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Account Settings

Your Developer Cloud Account

Cloud Account ID: 303011951664   **Tier:** Standard

Standard tier includes:

- Explore and evaluate the latest Intel® AI products.
- Develop AI skills.
- Access cutting edge learning resources.
- Get support from the Intel community.

Not included:

- Early prerelease hardware
- AI and machine learning software toolkits
- Billed subscription for teams
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Your Developer Cloud Account

Cloud Account ID: 884712573029   **Tier:** Standard

Standard tier includes:

* Explore and evaluate the latest Intel® AI products.
* Develop AI skills.
* Access cutting edge learning resources.
* Get support from the Intel community.

Not included:

* Early prerelease hardware
* AI and machine learning software toolkits
* Billed subscription for teams
* Use CPU, GPU, and AI accelerators
* Intel premium support

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Summary

In conclusion, the development of LegalAssist represents a significant step towards leveraging artificial intelligence and advanced analytics to enhance the efficiency and effectiveness of legal professionals. The prototype successfully integrates OpenAI's Language Model, Intel Analytics Toolkit, and the Intel Developer Cloud to create a versatile legal assistance tool.

Summary

Throughout the development process, our team gained valuable insights into the challenges and opportunities within the legal industry. The combination of natural language processing, predictive analytics, and automated contract review offers a powerful set of tools to streamline legal research, assess case outcomes, and expedite contract reviews.

Summary

LegalAssist's user-friendly interface and seamless integration with cutting-edge technologies provide legal professionals with a valuable resource for making informed decisions and improving overall productivity. The iterative development process allowed us to fine-tune the application and incorporate user feedback, ensuring that the tool aligns closely with the needs of legal practitioners.

Summary

As we look to the future, there is immense potential for further enhancements and expansions. The incorporation of advanced legal analytics, continuous improvement of natural language processing capabilities, and additional features like collaboration tools and document automation will contribute to the evolution of LegalAssist.

Summary

We envision LegalAssist as a catalyst for positive change within the legal field, empowering professionals to navigate the complexities of legal research, case prediction, and contract review with greater ease and confidence. We remain committed to refining and expanding the application, staying at the forefront of technological advancements to deliver innovative solutions for the legal community. The journey does not end here, and we look forward to further advancements and collaborations in the realm of legal technology.

Meet our team

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Team Leader

SIDDIQ MOIDEEN

Team Member 1

DAVID VEDHA JEROME A

Team Member 2