

LASER | GPT based Enterprise Search Engine Solution – Offering 3D Advantage



01

Revolutionize the way organizations interact with **their internal knowledge repositories**

02

Secure Proprietary Data

03

Enhance the ability to **search and extract** meaningful information



Mitigating the current challenges of LLM's "The LASER Way"

Existing Language Models (Current State)

LASER Solution (Future State)

HALLUCINATION

LLM's involves the **model fabricating information** or making things up that are not grounded.



By carefully **selecting and designing prompts**, the model's responses are guided and encouraged to generate more accurate and contextually appropriate outputs through **Citations**.



BIAS

LLM's can **inherit biases** from the data they are trained on, leading to biased or unfair outputs.



The training data is carefully **curated and preprocessed**, ensuring it represents a diverse range of topics.



PROMPT SIZE

Every large language model has a **specific memory capacity**, which restricts the number of tokens it can process as input.



The entire knowledge base is filtered based on **user prompt using Semantic search** and sent only relevant knowledge as context.



MISUSE

Language models can **be misused for harmful purposes**, such as generating malicious content or impersonating individuals.



Strict usage guidelines are enforced and usage of the models are monitored.

LASER – Key Value Proposition

SECURE ACCESS

Our solution is built **on Azure OpenAI**, ensuring that proprietary information is secure and **protected** while offering **advanced search capabilities**.



ENHANCED SEARCH

SmartSearch **enables semantic understanding**, allowing users to make **natural language queries** when searching repositories. This feature saves time and boosts efficiency.



SEAMLESS INTEGRATION

Our solution integrates with existing systems, transforming the traditional data management process and **promoting data-driven decision-making**.



ACTIONABLE INSIGHTS

Our solution integrates with existing systems, transforming the traditional data management process and promoting data-driven decision-making.



Retrieval-Augmented Generation (RAG): Establishing Control over Data and Optimizing Model Performance & Costs



Data Freshness

- ✓ Up-to-date information guaranteed
- ✓ Highly adaptive



Data Controls

- ✓ Data-Classification based Data Access Control
- ✓ Flexibility in controlling “The Known”



Reduced Hallucinations

- ✓ Reliable & Factual
- ✓ Non-parametric memory-based guidance



Reduced Implementation Cost

- ✓ Saves Computational resources & Time
- ✓ Optimal support for knowledge-intensive tasks

Transform knowledge repositories from simple data storage to powerful decision-making tools, driving growth and success



~30% reduction in **Turnaround time** for Processing Search Queries



~25% reduction in **Content Creation time**



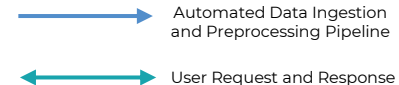
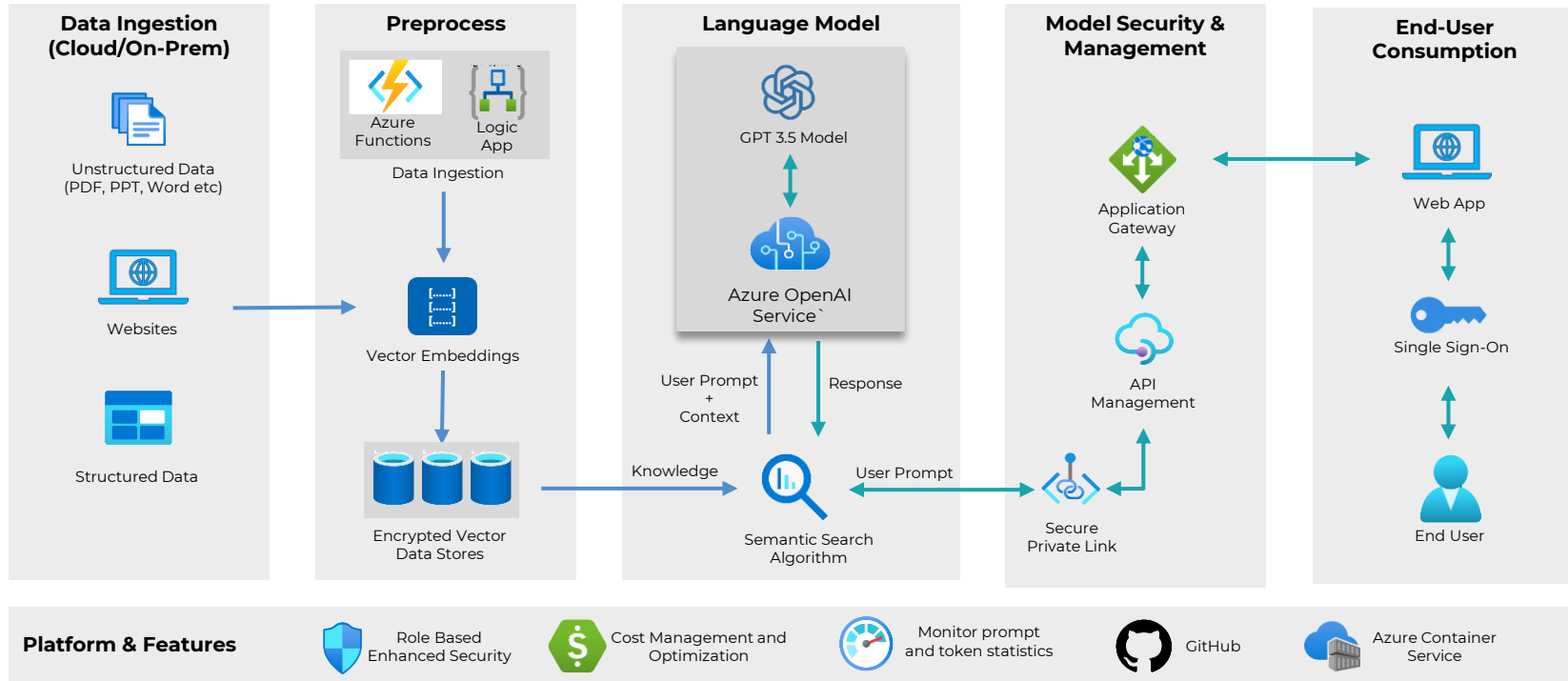
~20% **reduced costs** related to **data management & decision making**



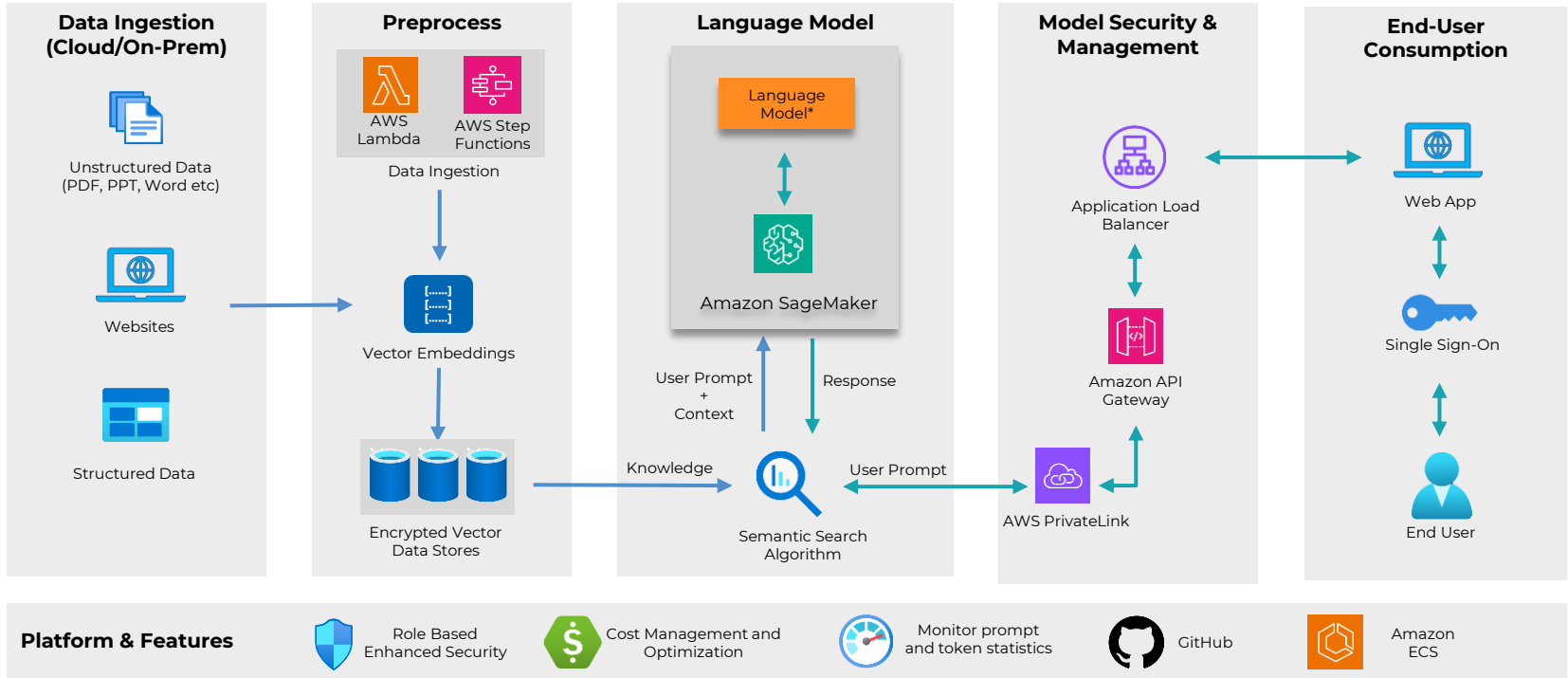
~40% Expected **Increase in adoption** of **data management solutions**

LASER

LASER – High Level Architecture



LASER- High Level Architecture



* Suitable Language Model will be selected based on Use Case and Cloud Infrastructure

