CHAPERONE AI

Real-World Use Cases for Semantic Text Analysis

SEMANTIC TEXT ANALYSIS TO UNLOCK DEEPER INSIGHTS

In today's data-driven world, extracting meaningful insights from vast amounts of unstructured information is a challenge many enterprises face. At Chaperone AI, we specialize in cutting-edge "Semantic Text Analysis" solutions designed to bring clarity and actionable insights to your organization's data.

Our state-of-the-art large language models (LLMs) are finely tuned for advanced tasks such as document tagging, sentiment analysis, and address matching—helping you turn raw text into structured, searchable, and highly relevant information. Hosted securely in our EU-based datacenter, our solutions ensure full GDPR compliance while offering a scalable and cost-effective flat-rate pricing model.

Whether it's categorizing large sets of documents, analysing customer feedback for sentiment trends, or matching addresses with unmatched precision, our tailored LLMs excel in delivering accurate and context-aware results. By leveraging retrieval-augmented generation (RAG), we ensure that every response is deeply rooted in your organization's unique data, providing a level of accuracy and relevance unmatched by generic models.

Unlock the true potential of your enterprise data with our "Semantic Text Analysis" solutions, designed to enhance decision-making, streamline processes, and drive efficiency at scale. With use cases that range from document classification to customer sentiment tracking and address validation, we are excited to demonstrate how our AI-powered tools can transform the way you understand and interact with your data.

3 MOST COMMON SEMANTIC TEXT ANALYSIS USE CASES

🏷️ 1. Document Tagging

By connecting AI to your domain-specific documents, such as legal, medical, or financial records, Chaperone AI efficiently handles automated document tagging, text summarization, and embedding. This provides accurate, domain-specific responses, improving organization and retrieval while enhancing productivity with seamless, human-like interactions.

★☆☆ 2. Sentiment Analysis

By integrating AI with your company's data, Chaperone AI enables domain-specific sentiment analysis, delivering accurate insights tailored to your industry. It efficiently processes technical documents, reviews, or communications, providing real-time, nuanced sentiment detection and enhances decision-making. This level of sentiment insight empowers your business to detect shifts in the trends, identify emerging concerns, and respond proactively to maintain a positive brand experience.

At the 2024 Binaytara Foundation Northwest Women's Cancer Conference, focusing on loco-regional therapy in breast cancer, participants will, upon successful completion of this educational activity, be able to evaluate available clinical trials for women's cancers, including eligibility criteria and outcomes. They will summarize the current guidelines for managing women's cancers, focusing on best practices and recommended treatments. Participants will analyze the study design and primary endpoints of recently reported and ongoing clinical trials assessing novel strategies for women's cancer management. They will also identify frequent molecular abnormalities in women's cancers and determine the appropriate timing for testing to detect these abnormalities. Finally, they will integrate emerging evidence in precision oncology into current treatment paradigms for women's cancers, enhancing the personalized management of the disease.

| Chronic Lymphocytic Leukemia (CLL) | **B-cell lymphoma** | **DLBCL** |
| Monoclonal Antibodies in CLL | BTK inhibitor in CLL | |

📋 3. Entity Extraction

Identify and extract key terms, phrases, or entities from large volumes of domain-specific text, enhancing searchability and enabling quick access to relevant information. This automated tagging streamline content organization, supports targeted analysis, and uncovers frequently discussed topics for emerging trends, empowering informed decision-making and efficient knowledge discovery.

At the 2024 Binaytara Foundation Northwest Women's Cancer Conference (CONFERENCE), focusing on loco-regional therapy (THERAPY) in breast cancer (DISEASE), participants will, upon successful completion of this educational activity, be able to evaluate available clinical trials (STUDY) for women's cancers, including eligibility criteria (CRITERIA) and outcomes (RESULT). They will summarize the current guidelines (GUIDELINES) for managing women's cancers, focusing on best practices (BEST_PRACTICES) and recommended treatments (TREATMENT). Participants will analyze the study design (STUDY_DESIGN) and primary endpoints (ENDPOINTS) of recently reported and ongoing clinical trials assessing novel strategies (STRATEGY) for women's cancer management. They will also identify frequent molecular abnormalities (MOLECULAR_MARKER) in women's cancers and determine the appropriate timing for testing (TESTING) to detect these abnormalities. Finally, they will integrate emerging evidence (EVIDENCE) in precision oncology (ONCOLOGY) into current treatment paradigms (TREATMENT_PARADIGM) for women's cancers, enhancing the personalized management (PERSONALIZED_MEDICINE) of the disease.
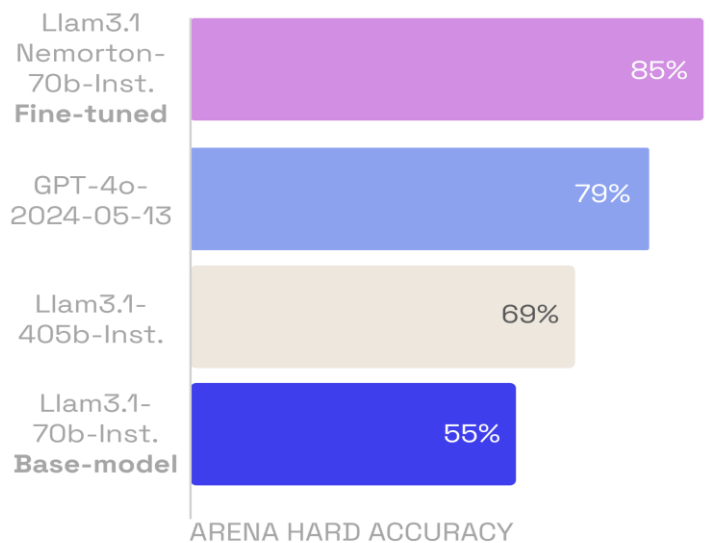
📄 4. Content Briefing

Automate the extraction and summarization of key insights from lengthy reports, using advanced semantic understanding to capture essential information accurately. This process condenses complex documents into concise summaries for higher management to save time and enable quicker decision-making by highlighting critical points and trends.

THE FEUTURE DEVELOPMENT OF LARGE LANGUAGE MODELS

Drive your business growth through fine-tuned semantic analysis powered by privately hosted LLMs and multiagent systems that seamlessly integrate with your company's data and workflows.

Fine-tuning allows the model to understand industry-specific terminology and complex queries, ensuring deeper and more actionable insights. With enhanced semantic analysis, your organization can make data-driven decisions faster, identify emerging trends, and respond to customer needs with greater accuracy. This tailored approach not only increases operational efficiency but also drives customer satisfaction, fueling growth by turning raw data into strategic opportunities.

Llam3.1 Nemorton-70b-Inst. **Fine-tuned**	85%
GPT-4o-2024-05-13	79%
Llam3.1-405b-Inst.	69%
Llam3.1-70b-Inst. **Base-model**	55%

ARENA HARD ACCURACY

Demand for fine-tuned LLMs has surged with the advent of GPT-4 class open models (e.g., 405B LLaMA3, DeepSeek-v2) and the growing adoption of smaller (~8B) and medium (~70B) fine-tuned models.

About Chaperone AI

Our fine-tuned, self-hosted LLMs empower enterprises with advanced semantic analysis, turning raw data into actionable insights. Chaperone AI enhances customer and employee experiences, streamlines processes, and drives growth by delivering data-driven strategies that boost revenue and cut costs.

Unlock the true potential of GenAI with Chaperone AI and transform your enterprise. Learn more about how we can help here:

www.chaperoneai.net

Why Choose Chaperone AI

- Your data, your control.
- Fine-tuned self-hosted LLMs, ensure data privacy and unauthorized usage.
- Easy Integration with existing systems like UI Path, SAP, Salesforce, etc.
- Support to connect with multiple backend data sources.
- Omnichannel solution for chat, and email bots.
- Multilingual support for localized customer service.
- Semantic based domain-specific text analysis.
- Unlock the full potential of business with our multi-agent GenAI solution.