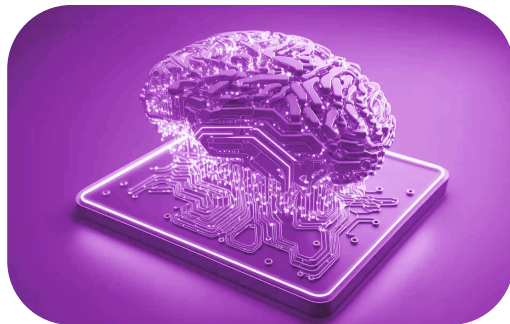


SmartLang



An on-premise artificial intelligence service that is proficient in banking and finance terminology and rapidly translates texts and documents between different languages while preserving semantic integrity.

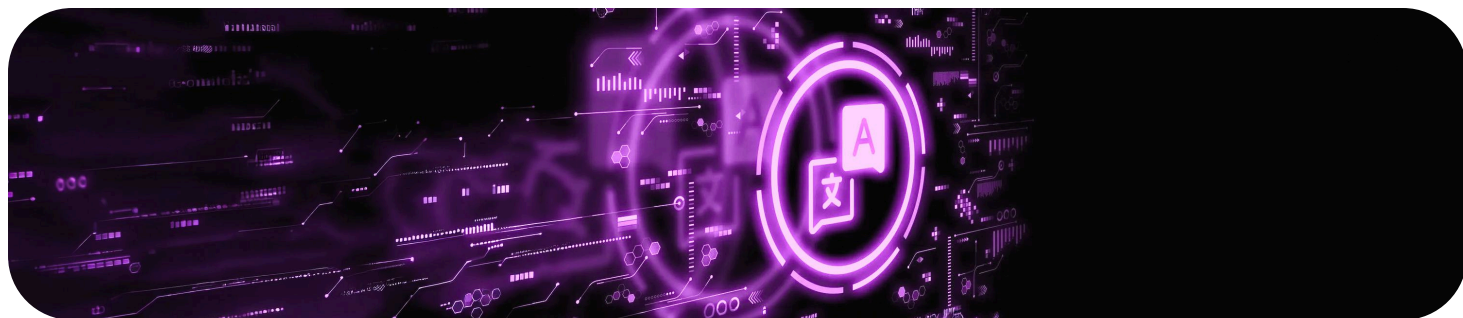
Problem and Need

In today's banking world, international correspondence and the analysis of documents in different languages are of great importance. However, the analysis and translation of such content can bring certain problems. Some of these include:

- **Terminology Difficulty:** General translation tools may be insufficient in accurately translating domain-specific terms in fields such as banking, participation finance, and law.
- **Data Privacy:** Uploading private banking data or customer information to cloud-based services creates security and compliance risks.
- **Time and Cost:** Manual translation processes are slow and can cause delays for time-sensitive documents.

Solution

GenAI Translation provides high-accuracy translation services by running open-source large language models within the secure infrastructure of the institutions themselves. It has been specifically optimized for corporate language by being tested with a wide data set, including financial texts, blog posts, and activity reports.



Key Features

- **Versatile Language Support:** Provides fluent and meaningful bidirectional translation for Turkish-English, Turkish-Arabic, and English-Arabic.
- **Domain-Specific Competence:** Recognizes technical terms used in banking, law, and regulation with high accuracy.
- **Advanced Document Processing:** Accepts and translates DOC, DOCX, and PDF files directly, in addition to plain text.
- **Seamless Flow:** Processes long texts by dividing them into segments and presents the result to the user in real-time.
- **On-Premise Security:** All operations take place on the institutions' own servers and within their own network; your data never leaves the premises.

Benefits

- **Corporate Data Security:** Supports the secure translation of sensitive documents by ensuring full compliance with privacy standards.
- **High Performance:** Our model, optimized in light of accepted metrics in the literature, has achieved reliable success scores that meet academic and technical standards.
- **Speed and Efficiency:** Processes pages of documents at high speed, significantly shortening processing times compared to traditional processes and accelerating operational workflows.

How Does It Work?

- **Input and Language Selection:** The user enters the text or uploads the document and selects the target language.
- **Preprocessing and Analysis:** The text is cleaned and divided into segments (chunking) based on its length.
- **LLM Translation:** Translates each segment into the target language while maintaining semantic integrity.
- **Integration:** The translated segments are merged according to their original order to create the final translation.

