Analyze text with Azure AI Language

Azure AI Language is designed to help you extract information from text. It provides functionality that you can use for:

- *Key phrase extraction*

- *Sentiment analysis*

- *Named entity recognition*

- *Entity linking*

The Azure AI Language detection API evaluates text input and, for each document submitted, returns language identifiers with a score indicating the strength of the analysis.

Language identification can be applied to both documents and individual phrases. It is crucial to emphasize that the document's size should not exceed 5,120 characters. This size restriction pertains to each document, and within a given collection, there is a cap of 1,000 items (IDs). An example of a correctly structured JSON payload, which could be sent to the service in the request body, is presented below. This payload comprises a set of documents, each possessing a distinct ID and accompanying text for analysis. Additionally, you have the option to furnish a *countryHint* to enhance prediction accuracy.

💡
```
{
    "kind": "LanguageDetection",
    "parameters": {
    "modelVersion": "latest"
},
    "analysisInput":{
    "documents":[
{
    "id": "1",
    "text": "Hello world",
    "countryHint": "US"
},
{
"id": "2",
"text": "Bonjour tout le monde"
}
]
}
}
```

Extract key phrases

Key phrase extraction is the process of evaluating the text of a document, or documents, and then identifying the main points around the context of the document(s).

Key phrase extraction works best for larger documents (the maximum size that can be analyzed is 5,120 characters).

Analyze sentiment

Sentiment analysis is used to evaluate how positive or negative a text document is, which can be useful in various workloads, such as:

- Evaluating a movie, book, or product by quantifying sentiment based on reviews.

- Prioritizing customer service responses to correspondence received through email or social media messaging.

Extract entities

Named Entity Recognition identifies entities that are mentioned in the text including person, location, date and time.

In this module, you learned how to use Azure AI Language to:

- Detect language from text.

- Analyze text sentiment.

- Extract key phrases, entities, and linked entities.

For more,

[Azure AI Language documentation - Tutorials, API Reference - Azure AI services | Microsoft Learn](#)

[Build a conversational language understanding model - Training | Microsoft Learn](#)