L03 Lab 03 on Skillable

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**Introduction**

In this laboratory work, my goal was to understand the capabilities of Azure AI Language within the Azure AI Foundry portal. From the beginning, I was curious how this service would tackle real-world scenarios like extracting named entities, identifying key phrases, and generating concise summaries from text. I had some prior knowledge of text analytics, but this was my first in-depth exploration of Azure’s integrated platform for quickly creating and analyzing AI-driven projects.

**Body**

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Description automatically generated**After creating the project and customizing the hub name within the specified resource group, I have tested each feature with sample hotel reviews. As an example, I extracted key phrases to see how the service zeroed in on the most important parts of a review, such as “good service,” “great location,” and “Michelin Star.” Observing how quickly it identified these critical terms and how each phrase was displayed in the details pane was fascinating. Similarly, the named entity extraction feature impressed me by assigning categories like A screenshot of a computer

Description automatically generatedlocation, organization, and event, while providing confidence scores. This gave me insights into how well the model distinguished between various entity types.

A screenshot of a computer

Description automatically generatedI liked the summarization tool. After pasting a longer review describing noise issues and tiny rooms, Azure AI Language produced both extractive and abstractive summaries. It was interesting to see how the system ranked sentences by relevance and then distilled them into a coherent summary. Watching the rank scores change made me realize that the model doesn’t just randomly select sentences, it actively evaluates their importance to the overall context. In a real-world scenario, this function could significantly streamline workflows, especially when dealing with large volumes of reviews or customer feedback in a customer service environment.

**Conclusion**

Overall, my experience in this lab was both practical and I learned something new today. By systematically creating Azure resources and utilizing the Language playground, I explored how easily one can extract entities, retrieve key phrases, and generate meaningful summaries from text data. This exercise provided me with a deeper understanding of how natural language processing can be applied in a cloud environment and emphasized the importance of well-structured, automated AI services. I look forward to applying these insights to more advanced projects and continuing to explore how Azure’s platform can enhance text analytics tasks.

**Resources:**

Jboback. (2025, March 5). *What is summarization? - Azure AI services*. Microsoft Learn. <https://learn.microsoft.com/en-us/azure/ai-services/language-service/summarization/overview?tabs=text-summarization>

HeidiSteen. (2024, October 18). *Extract text from images by using AI enrichment - Azure AI Search*. Microsoft Learn. <https://learn.microsoft.com/en-us/azure/search/cognitive-search-concept-image-scenarios>