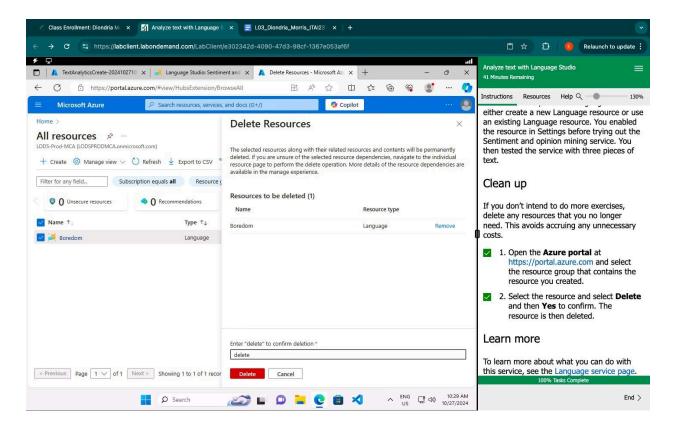
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Lab₀₃

ITAI-2372 Artificial Intelligence Fall 2024



1. Introduction:

- ·Brief Overview: Analyze text with Language Studio.
- **Purpose:** In this report I'll give an overview of my experience with the Natural Language Processing capabilities available in Language Studio.

2. Description of Experience or Topic:

To access the NLP features I needed to create a Language or Azure AI services resource. The parameters used were the same as in the previous setups for this step. Tasks in this lab focused on analyzing hotel reviews from Margie's Travel. Using NLP, I examined various reviews to determine their sentiment. Natural Language Processing is a branch of AI that enables computers to

understand and generate human language. In this context I used NLP to evaluate the sentiment of each review. This is helpful to identify how positively or negatively people feel about specific aspects of the hotels. The Language Studio interface provides tools like the "Detected Attributes" box which displays a detailed analysis of text. This includes an assessment of each sentence, showing positive, negative, and neutral sentiment percentages. It also highlights the overall opinion on key words like internet, courtyard, and staff; providing insights into guest opinions.

3. Personal Reflection:

This training module gave me a solid introduction to using NLP for sentiment analysis and I can see its potential beyond this exercise. Any business that has a service or product can use this technology to analyze customer feedback to make data driven decisions. I would like to explore more advanced NLP techniques to gain deeper insights on its capabilities.

4. Discussion of Improvements and Learning:

My only critique of this lab is that I wish it'd been longer and included diverse examples. More examples would've allowed me to explore a wider range of scenarios, enhancing my familiarity with Language Studio. I learned how to effectively utilize NLP to analyze sentiment in text. This helps to strengthen my understanding of how AI can interpret human language. This lab also showed me how sentiment analysis can provide perspective into individual elements of customer feedback like guest opinions on hotel amenities.

5. Conclusion:

•Summary: Overall, this experience highlighted how AI can help us better understand and respond to human feedback.