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Lab 04

ITAI-2372 Artificial Intelligence Fall 2024

contains the resource you created.

2. Select the resource and select **Delete** and then **Yes** to confirm. The resource is then deleted.

Learn more

This exercise demonstrated only some of the capabilities of the AI Document Intelligence service. To learn more about what you can do with this service, see the [Document Intelligence](#) page.

100% Tasks Complete

1. Introduction:

- **Brief Overview:** Extract form data in Document Intelligence Studio.
- **Purpose:** This report presents my experience with Azure AI Document Intelligence; focusing on document and form extraction.

2. Description of Experience or Topic:

First things first, create a Document Intelligence resource using the same standards parameters. In this learning module we analyzed receipts for our demo retail company, Northwind Traders. The Studio includes a document analysis and a collection of pretrained models. The interface for analyzing receipts featured options such as Run Analysis, Query Fields, Analyze Options, Fields, Results, and Code tabs. Sample images are also provided to experiment with the features. After uploading your chosen file, the Run

Analysis button processes the document and generates the results. In this scenario it identified details including name, address, phone number, subtotal, and tax; essentially all key receipt information. It also provides accuracy percentages for these classification that helps gauge the reliability of each extracted detail.

3. Personal Reflection:

After completing this lab exercise I explored other available features and was impressed by the variety in the prebuilt models section. These models enable extraction and analysis of information from an extensive range of files such as; paystubs, tax forms, bank statements, health insurance cards, and even mortgage documents. Another aspect that caught my attention was the layout of the Document Intelligence Studio, it includes a “Code” view displaying the specific coding for each document type. This capability shows the coding logic behind each document, and as a student currently learning coding, this is valuable to see. It’s a practical way to view how different code structures and functions translate into everyday forms.

4. Discussion of Improvements and Learning:

I don’t have any new critiques to add here; my feedback remains consistent with previous reports. A new term that was introduced to me was OCR, or Optical Character Recognition. This technology converts different document types like scanned paper, PDF Files, and images with no text into machine readable data. By combining OCR with Azure AI Document Intelligence information can be extracted efficiently, elevating accuracy and reducing manual data entry.

5. Conclusion:

- **Summary:** Azure AI Document Intelligence offers powerful tools for extracting and analyzing information from various types of documents to streamline data processing for businesses. By automating tasks like receipts and form analysis, companies can save time, reduce errors, and improve data accuracy.