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Lab 04 – Document Intelligence

ITAI 2372 – FA24

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Introduction:

Azure AI Document Intelligence is designed specifically for extracting, analyzing, and structuring data from various document types, making it particularly useful for automating document-heavy processes. In this lab, we used Azure AI resource to extract data from various documents in Document Intelligence Studio.

Key Features and Insights:

Beyond simple text extraction, it can detect structured tables, key-value pairs, and fields.

Pre-built models are tailored to certain document types, including invoices, receipts, business cards, and ID documents, which are highly accurate for common formats and can be deployed without custom training.

Custom models can be trained using a small amount of sample documents, recognizing and extracting specific fields or patterns, becoming useful for industry specific of proprietary documents that don’t fit standard templates.

Practical Applications:

Invoice Processing by automating the extraction of critical fields like vendor name, date, and amounts due, reducing manual entry errors speeding up processes.

Expense reporting by scanning, processing, and categorizing expense reports.

Medical record processing patient records or lab reports, identifying key information which can then be organized in electronic health record systems for easy access.

Regulatory documentation extraction, assisting in finding compliance related fields from documents, ensuring that all required data is captured and stored properly.

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