

SkillUp-Al



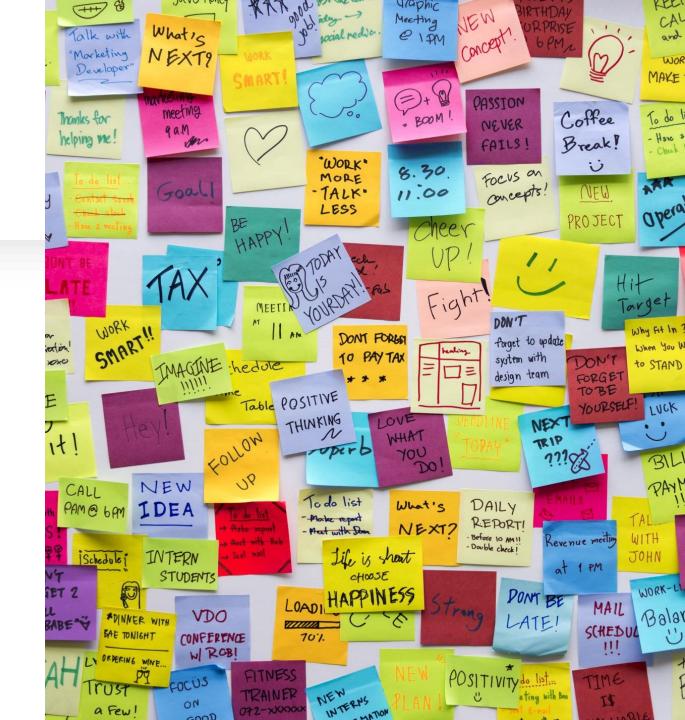
Jean Joseph

Data Engineer/Database Administrator Technical Trainer @Microsoft jeanjoseph@microsoft.com Exploring Sentimental Analysis using Azure

Al Search for your Search Documents

Overview

- Introduce Azure AI Search and explain how it can help you overcome Enterprise Search challenges by using the Sentiment cognitive skill
- Brief intro into Azure Al Search skill (v3)?
- Brief intro into sentimental analysis, opinion mining and why it is important
- Clarify the services that cognitive skills rely on
- How to integrate other services that Azure Al Search cognitive skills rely on.
- How to configure and run the Sentiment cognitive skill
- Q&A



Azure Al Search

Everything developers need to bring amazing search experiences to their apps

> Fast, reliable keyword search

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✓ Fully managed search engine

- Data ingestion
- Faceting
- Suggestions
- Auto-Complete
- Geo-Spatial

Improvements: linguistics, synonyms, custom scoring

- 56 languages
- Lemmatization
- Decomposition
- ✓ Multi-term synonyms
- Scoring profiles

Al-powered content

understanding

- Document cracking
- ✓ OCR
- ✓ Translation
- ✓ Key phrases
- Entity recognition
- Computer Vision
- PII Detection

query understanding,

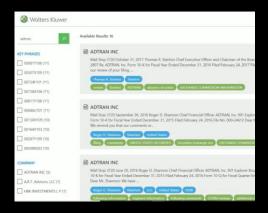
Al-powered

ranking, and answers

- State-of-the-art search specific ML models
- ✓ Semantic ranking
- ✓ Semantic captions
- ✓ Semantic answers

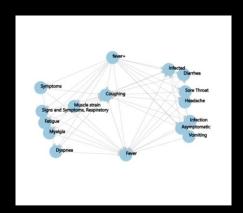
Typical Scenarios

Enterprise Search (enable employees to navigate LoB apps)



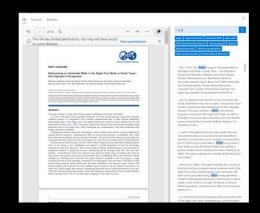
- Enable employees to quickly find relevant answers among structured and unstructured data
- Provide recommendations for field service, RFPs, compliance automation
- Transcribe and search call logs to uncover insights in field service

Knowledge Mining (enrich unstructured data to make it searchable)



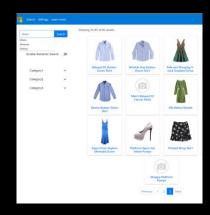
- Uncover patterns in text, media and unstructured files with AI services for NLP, Computer Vision, Speech2Text, language translation, etc.
- Link assets to entities of interest

Document Intelligence (extract insights from documents)



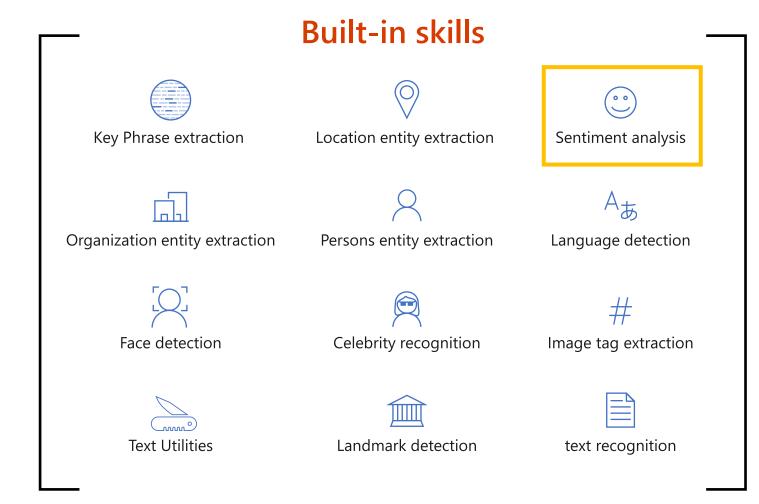
- Digitize assets
- Manage company archives
- Extract new insights and tag entities in data
- Automate document processing
- Automate auditing and compliance exercises

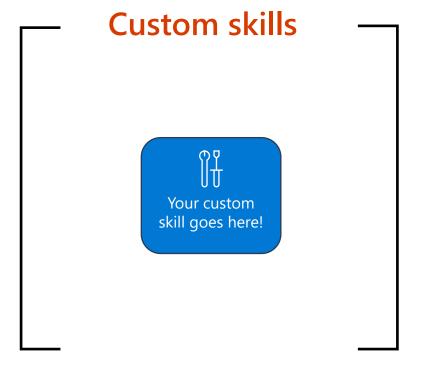
Catalog Search (ecommerce, customerfacing web & mobile apps)



- Rich catalog browsing with facets, sorting and filters
- Use filters to show/hide content to different users or audiences
- Apply catalog attributes to scoring formula for fine-tuned, context-sensitive results

Cognitive Skills within AI Search

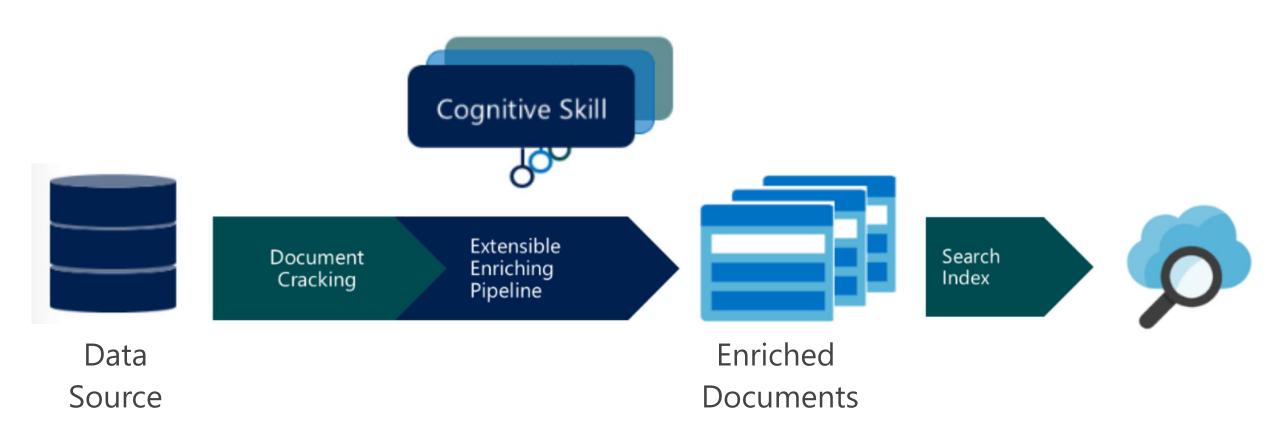






Cognitive Search: How it works?

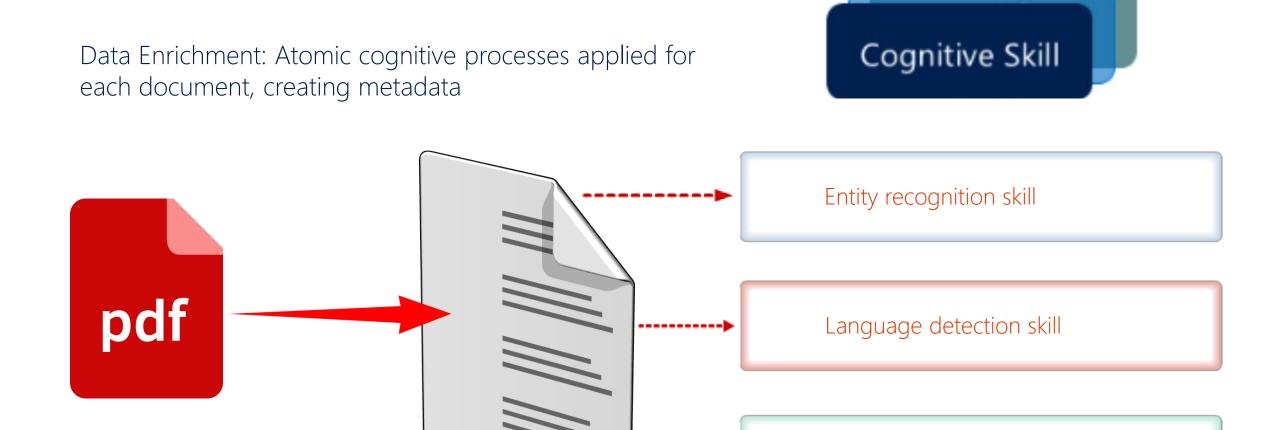
Ingest



Enrich

Explore

Cognitive Search: How it works?



Key phrase extraction skill



Sentimental Analysis & Opinion Mining



What is Sentimental Analysis

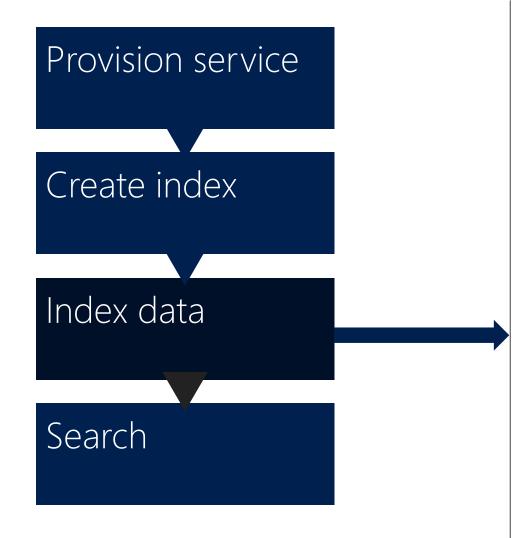
Sentiment



What is Opinion Mining?

Aspect

What are the steps required



Push - using indexing API

- Push data into the index programmatically
- POST to /indexes/<name>/docs/index
- Any dataset composed of JSON documents can be pushed to an Azure Search index
- No restrictions on frequency of execution
- Up to 1000 Actions per batch
- Actions can be upload, merge, delete, etc

Pull - using indexers

- Azure SQL DB, CosmosDB, Blob Storage, Table Storage and SQL VM
- Change detection, deletion markers
- Point it at the data source, define policy, done

Related Services

Demo

Version 3 of Language Service



Thank You

Exploring Sentimental Analysis using
Azure Al Search for your Search
Documents

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