Self-Service Al with Power Bl Desktop



Artificial Intelligence (AI)

From automagical stuff to machine learning algorithms

From GUI to scripts (DAX, M, R)

Smart Features

Report Q & A **Smart Narrative** Insights **Analytic Line** Key Influencer Visual **Decomposition Tree Visual Smart Custom Visuals** What-if Parameter **Scripts** DAX R Integration Python Integration

Power Query Cognitive Services Azure Machine Learning Column by Example Web by Example



Questions & Answers (Q & A)

Ask a question using natural language
Refine via a related question
Provides answers from the data inside Power BI
Columns, Measures, Content, Filter, Visualisation
Synonyms

https://docs.microsoft.com/en-us/power-bi/consumer/end-user-q-and-a-tips

Insights

Majority, Top/Bottom, Correlation, Low Variance, Steady share with parent

Overall Trends, Seasonality, Change points, Time series outliers

https://docs.microsoft.com/en-us/power-bi/consumer/end-user-insight-types

Smart Narrative

Summarizes the content of a visual in plain English text Text can be customized

https://docs.microsoft.com/en-us/power-bi/visuals/power-bi-visualization-smart-narrative

Analytic Line

Analytics Pane for out-of-the-box lines Constant, min, max, average, median, percentile Forecasting

https://docs.microsoft.com/en-us/power-bi/desktop-analytics-pane

Key Influencer Visual

You bring one dimension and multiple metrics, Power BI will detect metric values are typical for the each dimension value

https://docs.microsoft.com/en-us/power-bi/visuals/power-bi-visualization-influencers

Decomposition Tree Visual

You bring one metric and multiple dimensions, Power BI will detect which metric has high or low values on each dimension

https://docs.microsoft.com/en-us/power-bi/visuals/power-bi-visualization-decomposition-tree

(Smart) Custom Visuals

Microsoft and third-parties have published custom visuals on AppSource (aka Market Place)

https://docs.microsoft.com/en-us/power-bi/developer/visuals/power-bi-custom-visuals

https://powerbi.microsoft.com/en-us/developers/custom-visualization/

What-if-parameter

Advanced analytics by running scenarios on your data

Parameter changeable via a slicer

https://docs.microsoft.com/en-us/power-bi/desktop-what-if

R Integration

Source

https://docs.microsoft.com/en-us/power-bi/desktop-r-scripts

Transformation

https://docs.microsoft.com/en-us/power-bi/desktop-r-scripts

Visual

https://docs.microsoft.com/en-us/power-bi/desktop-r-visuals

https://docs.microsoft.com/en-us/power-bi/service-r-packages-support

Python Integration

Source

https://docs.microsoft.com/en-us/power-bi/connect-data/desktop-python-scripts

Transformation

https://docs.microsoft.com/en-us/power-bi/connect-data/desktop-python-scripts

Visual

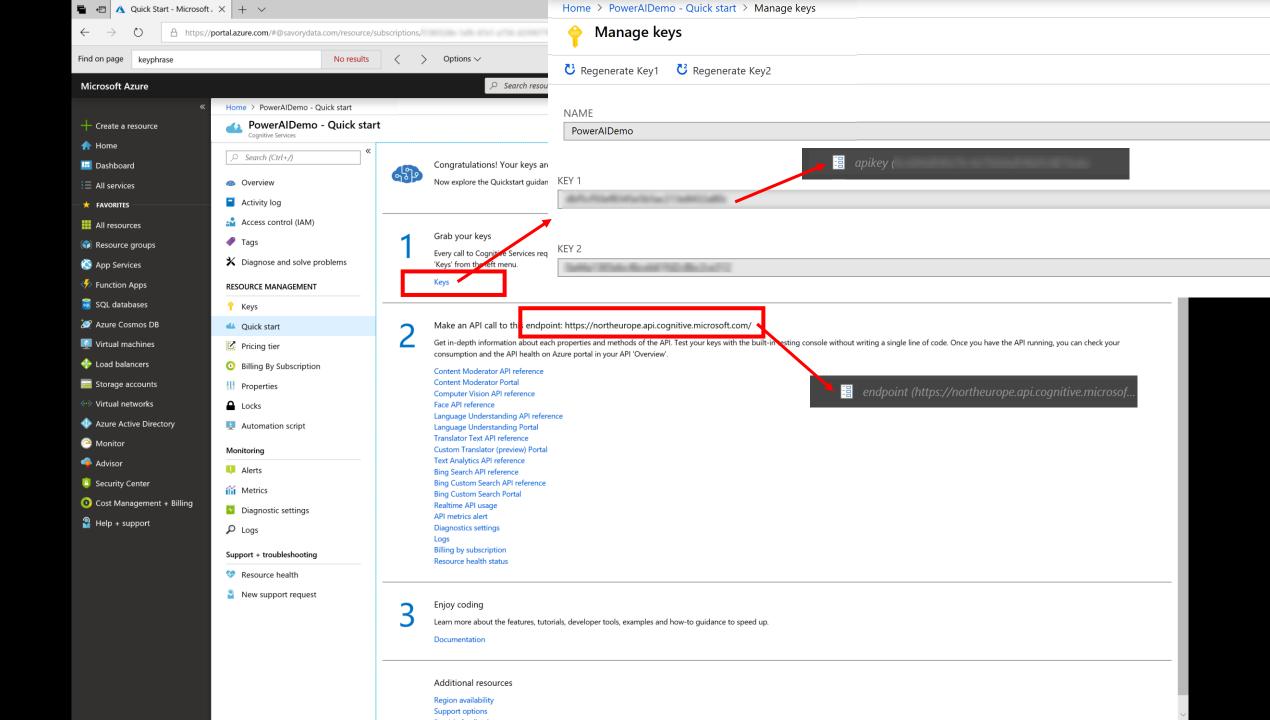
https://docs.microsoft.com/en-us/power-bi/connect-data/desktop-python-visuals

https://powerbi.microsoft.com/en-us/blog/python-visualizations-in-power-bi-service/

Cognitive Services

Enrich your data by using a pre-trained machine learning model

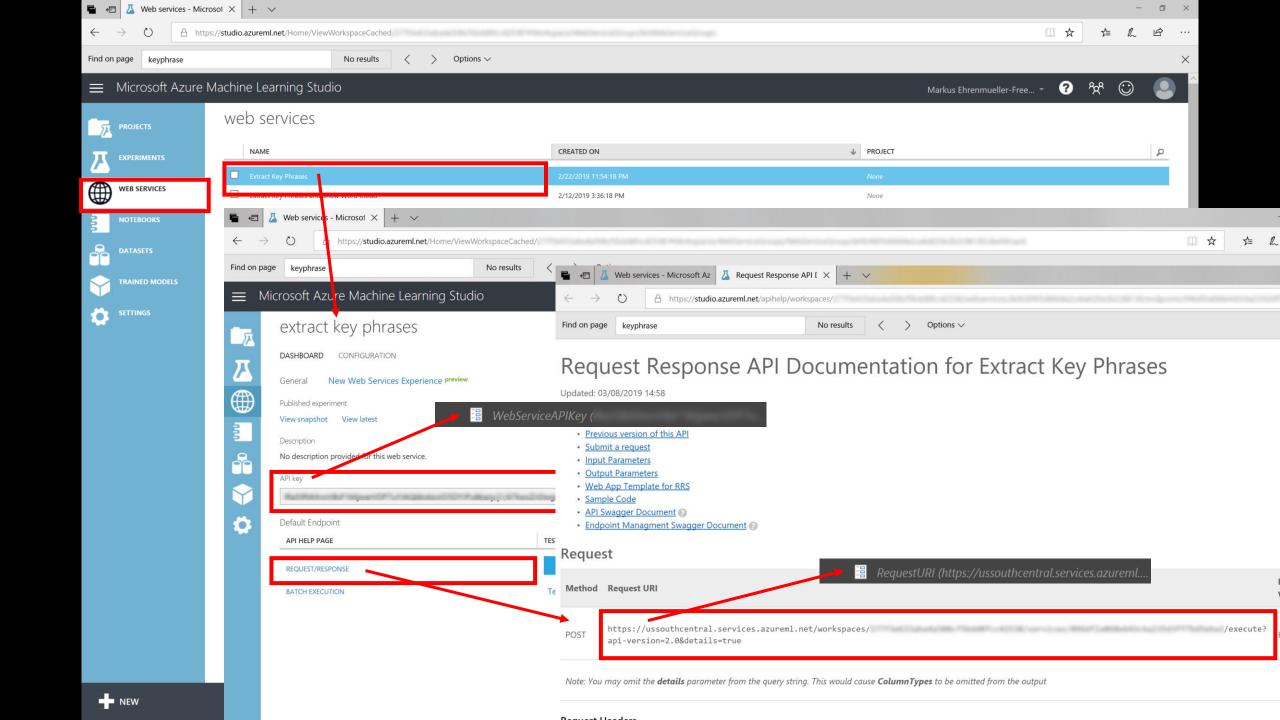
https://docs.microsoft.com/en-us/azure/cognitive-services/text-analytics/tutorials/tutorial-power-bi-key-phrases
https://docs.microsoft.com/en-us/azure/cognitive-services/text-analytics/how-tos/text-analytics-how-to-install-containers



Azure Machine Learning

Enrich your data by using a self-trained machine learning model

https://powerbi.microsoft.com/en-us/blog/power-bi-azure-ml/



Column by Example

Create new column, without typing any formula

https://docs.microsoft.com/en-us/power-bi/desktop-add-column-from-example

Web by Example

Extract data from web page, even when there is no tidy table

https://docs.microsoft.com/en-us/power-bi/desktop-connect-to-web-by-example

Where are the instructions?

New platform for all technical documentation

docs.microsoft.com

All content

open source, hosted on GitHub, community-enabled & in your own language

Help the community of users worldwide

https://aka.ms/intldocs & https://aka.ms/msossloc







Questions?













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Microsoft

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BI Developer

Database Developer

Database Admin













