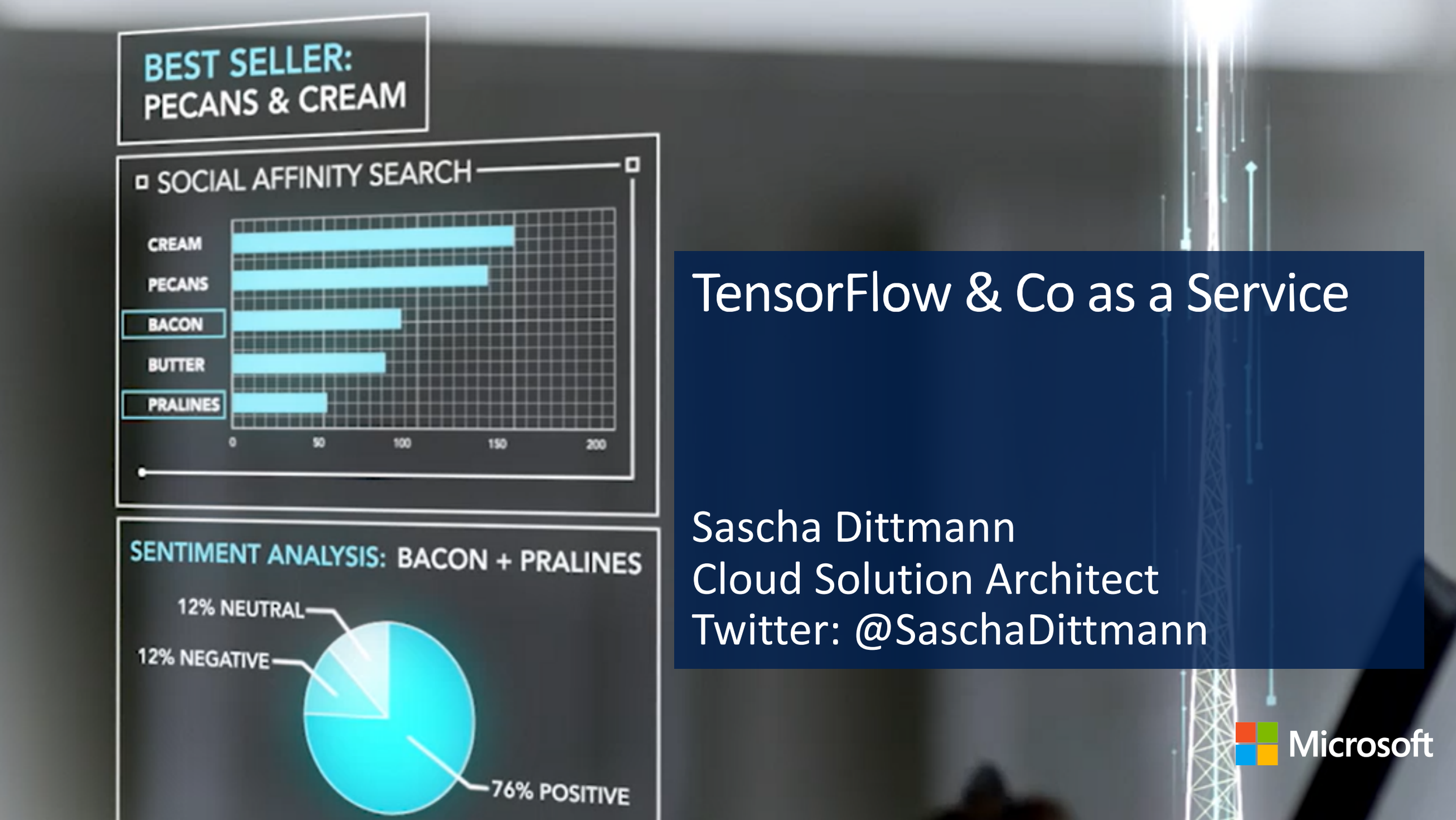
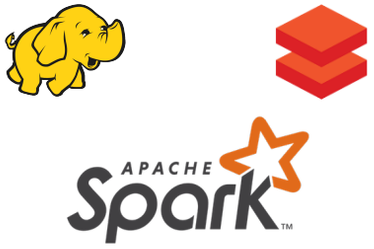
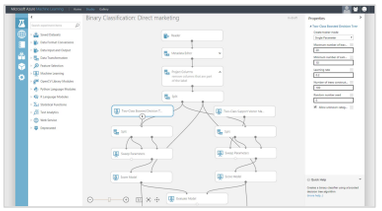
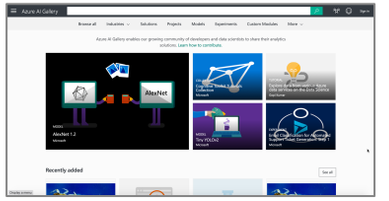


TensorFlow & Co as a Service

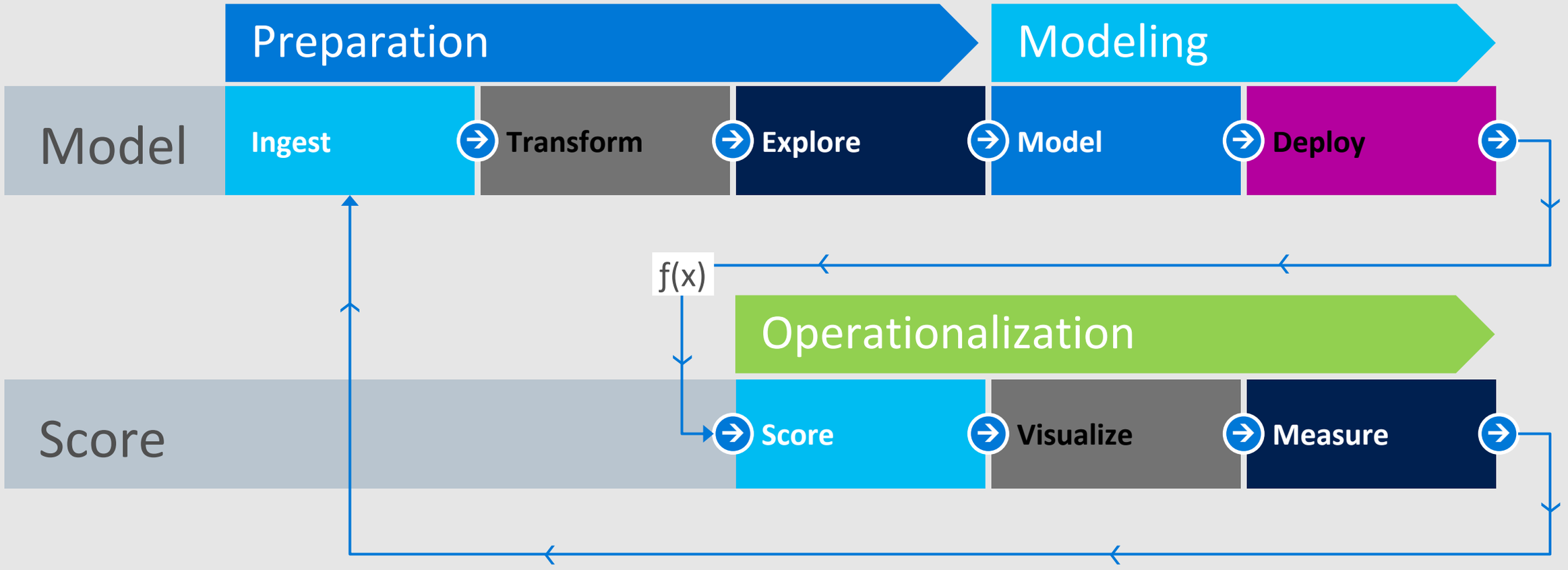
Sascha Dittmann
Cloud Solution Architect
Twitter: @SaschaDittmann

Microsoft

Microsoft Advanced Analytics Portfolio

Data Engineer / Data Scientist	Citizen Data Scientist	Advanced Data Scientist	Developer	BDM/TDM
				
Big Data Platform	**Cloud Analytics**	**R- and Python-based Analytics**	**Analytics APIs**	**Finished Apps & Solutions**
Run large massively parallel compute and data jobs	Easy drag/drop UX With single click operationalization	Enterprise grade, write once, deploy anywhere	Ready to consume APIs for Vision, Speech, Language, Knowledge	Ready to consume apps and solutions for solving specific business scenarios

Desired advanced analytics lifecycle



https://inseaddataanalytics.github.io/INSEADAnalytics/CRISP_DM.pdf

Azure Machine Learning Services

AZURE ML

SERVICES

USE ANY FRAMEWORK OR LIBRARY

TensorFlow Microsoft CNTK Apache Spark ML

USE ANY TOOL

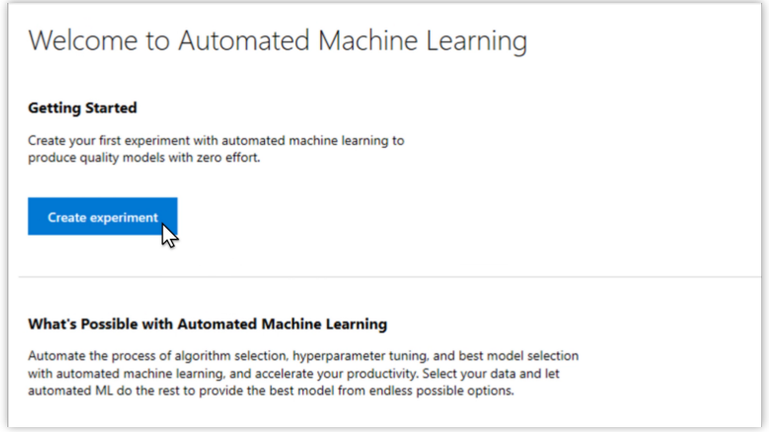
VS CODE Visual Studio jupyter PyCharm

USE THE MOST POPULAR INNOVATIONS

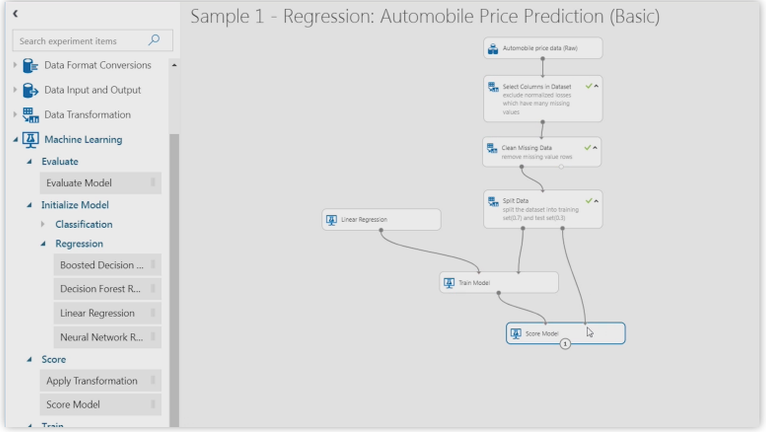
git Apache Spark

docker python R

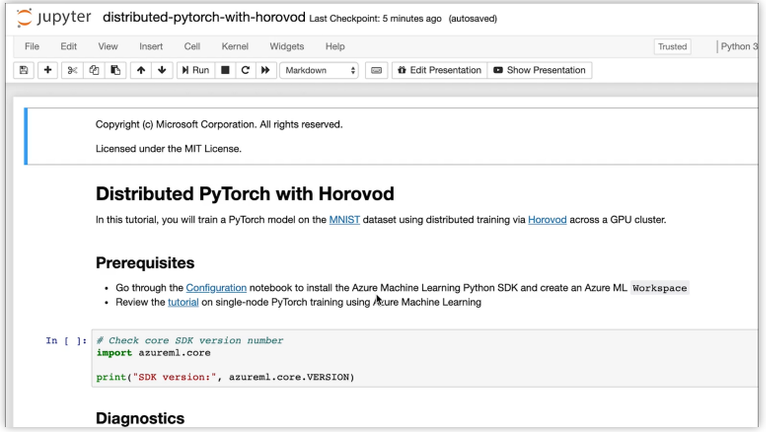
Machine learning for any skill level



Automated machine learning UI



Visual interface



Machine learning notebooks

Databricks, Jupyter & Co

databricks™

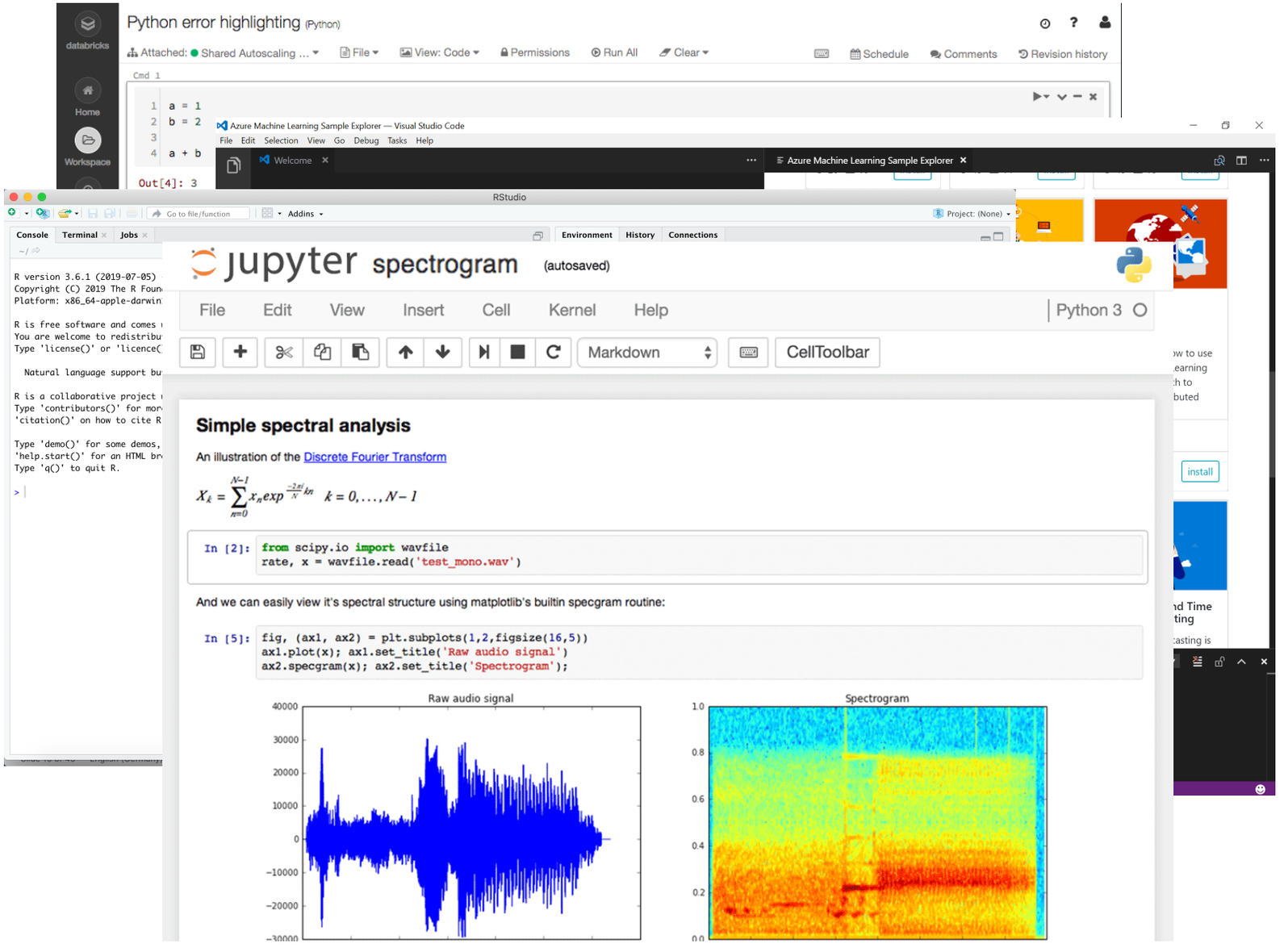
PyCharm

jupyter

CODE

Visual Studio

RStudio®



ML Workspace (Logical)

Workspace

Compute

Models

Experiments

Images

Data Stores

Deployments

ML Workspace (Physical)

Workspace

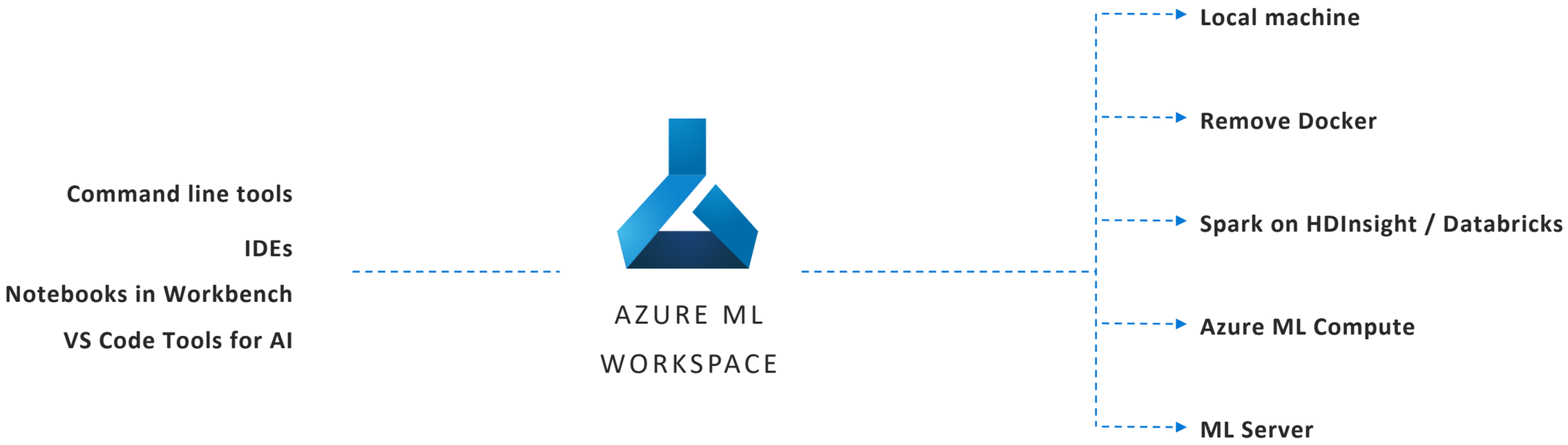
Storage

Container Registry

Key Vault

App. Insights

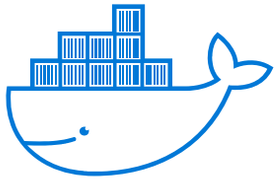
Experiment Everywhere



Deploy Everywhere

AZURE ML

MODEL MANAGEMENT



DOCKER

- Single node deployment (cloud/on-prem)
- Azure Container Service
  Azure Kubernetes Service
- Azure IoT Edge
- Microsoft ML Server
- Spark clusters
- SQL Server

Demos

Let's Connect

Twitter: @SaschaDittmann

GitHub: @SaschaDittmann

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Facebook: @DataDrivenDev

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