

W ramach Hackathonów planujemy udostępnić następujące środowiska i narzędzia.

Środowiska:

1. Maszyna wirtualna z Windows OS oraz zainstalowanym Visual Studio – 4vCPU, 16GB RAM.
2. Maszyna wirtualna Windows bez zainstalowanego Visual Studio – 4vCPU, 16GB RAM.
3. Maszyna wirtualna Linux np. Ubuntu – 4vCPU, 16GB RAM.
4. Maszyna DataScience Virtual Machine Windows – 4vCPU, 16GB RAM.
5. Maszyna DataScience Virtual Machine for Linux (Ubuntu) – 4vCPU, 16GB RAM.
6. Maszyna DeepLearning Virtual Machine z wykorzystaniem GPU – 6vCPU, 56GB RAM.

Narzędzia:

.NET 4.6.2 and .NET 4.7 SDKs, Targeting Packs, and Developer Tools, Visual F#, GitHub Extension for Visual Studio, LINQ to SQL Tools, Microsoft ML Server - Dev Edition (Scalable R & Python), Azure Machine Learning Workbench, Anaconda Python, SQL Server 2017 Dev. Edition - With In-Database R and Python analytics, Microsoft Office 365 ProPlus BYOL - Shared Computer Activation, Julia Pro + Juno Editor, Jupyter notebooks, Visual Studio Community Ed. + Python, R & node.js tools, Power BI Desktop, Deep learning tools e.g. Microsoft Cognitive Toolkit (CNTK, TensorFlow, Chainer, & mxnet, ML algorithm libraries e.g. xgboost, Vowpal Wabbit, Azure SDKs + libraries for various Azure Cloud offerings (Azure Machine Learning, Azure Data Factory), Stream Analytics, SQL Data Warehouse, Hadoop + Apache Spark (HDICluster), Data Lake, Blob storage, Microsoft R Server 9.3 with Microsoft R Open 3.4.3, MicrosoftML package with machine learning algorithms, RevoScaleR and revoscalepy for distributed and remote computing, and R and Python Operationalization, Anaconda Python 2.7 and 3.5, JupyterHub with sample notebooks, Spark local 2.3.1 with PySpark and SparkR Jupyter kernels, Single node local Hadoop, Azure command-line interface, Visual Studio Code, IntelliJ IDEA, PyCharm, and Atom, H2O, Deep Water, and Sparkling Water, Julia, Vowpal Wabbit for online learning, xgboost for gradient boosting, SQL Server 2017, Intel Math Kernel Library dodatkowo:

DLVM, który zawiera narzędzia do obsługi AI, w tym popularne edycje GPU z frameworków deep learning takich jak: Microsoft Cognitive Toolkit, TensorFlow, Keras, Caffe2, Chainer, Microsoft R Server Developer Edition, Anaconda Python, Jupyter notebooks for Python and R, IDEs for Python and R, SQL.

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