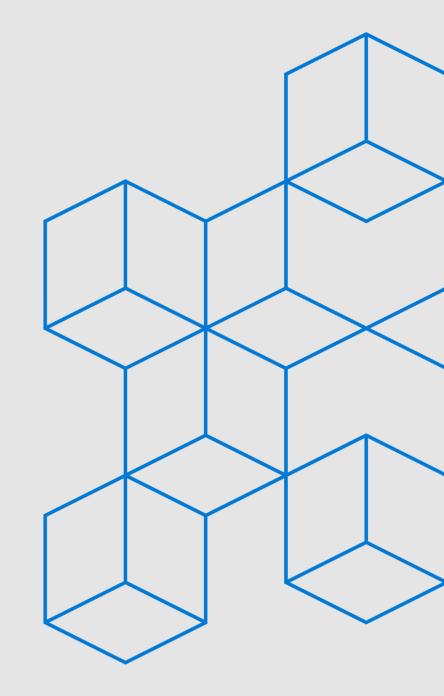
Azure Machine Learning 介绍

Kinfey.Lo

Microsoft MVP/Xamarin MVP

Github: https://github.com/lokinfey

Email: lokinfey@outlook.com



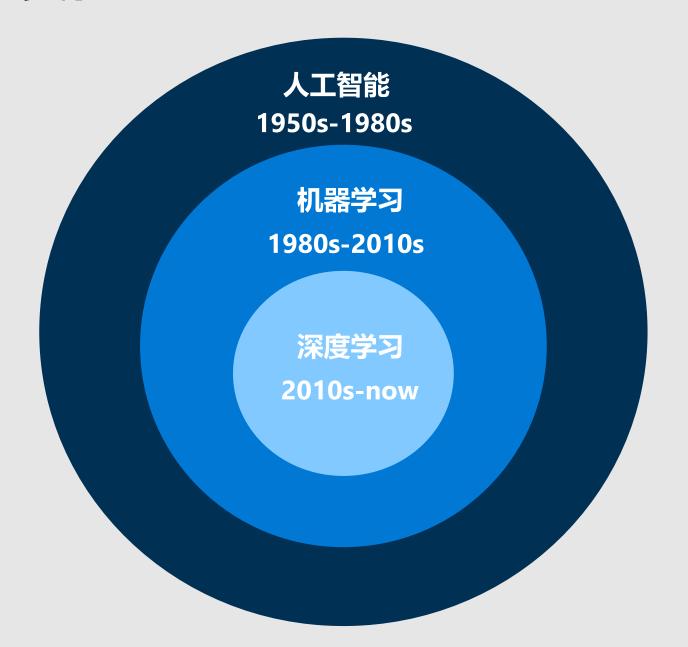
人工智能改变世界



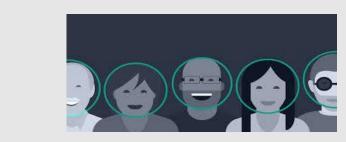


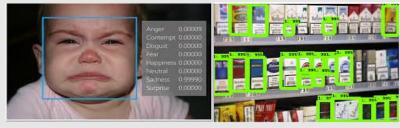


AI 技术不断变化



人工智能的热点方向







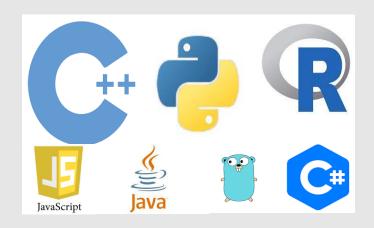


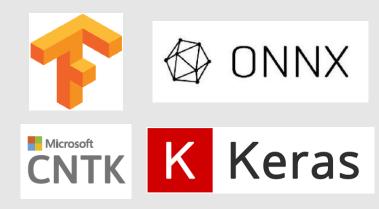
计算机视觉

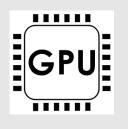
翻译

搜索

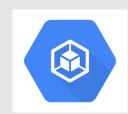
人工智能技术栈











语言

框架

硬件

Al@Azure

AI 应用和服务



Azure Bot Service Azure Cognitive Services

机器学习



Azure Databricks
Azure Machine Learning

知识挖掘



Azure Cognitive Search

Machine Learning on Azure

提供一些预定义的模型

能降低开发门槛



Vision







Speech

Language

Search

兼容不同的开发工具

快速完成模型开发, 简化开发流程







Visual Studio Code

Scikit-Learn

Command line

对人工智能开发框架的支持

根据你的需要创建深度学习的解决方案



Pytorch



TensorFlow



Onnx

提供生产服务

为开发团队提供数据,和训练环境



Azure **Databricks**



Azure Machine Learning



Machine **Learning VMs**

强大的硬件架构支持

加速深度学习环境



CPU



GPU

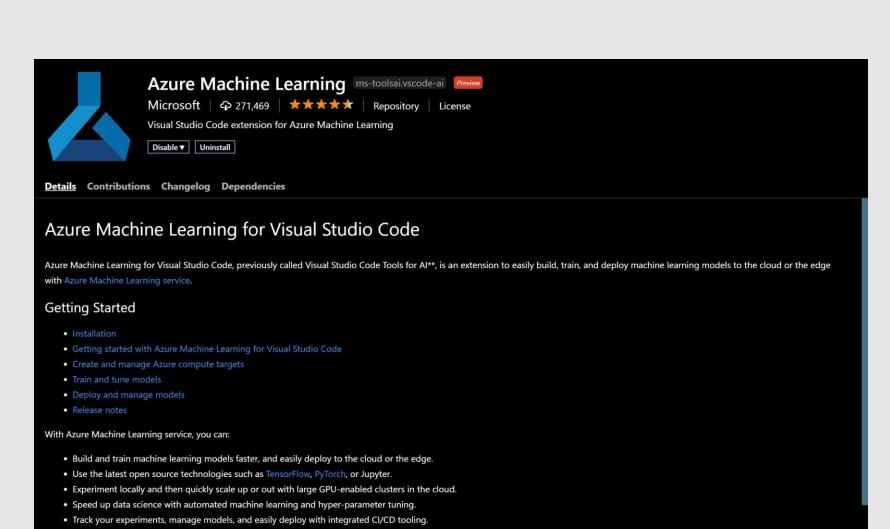


FPGA

从开发工具谈起



Visual Studio Code



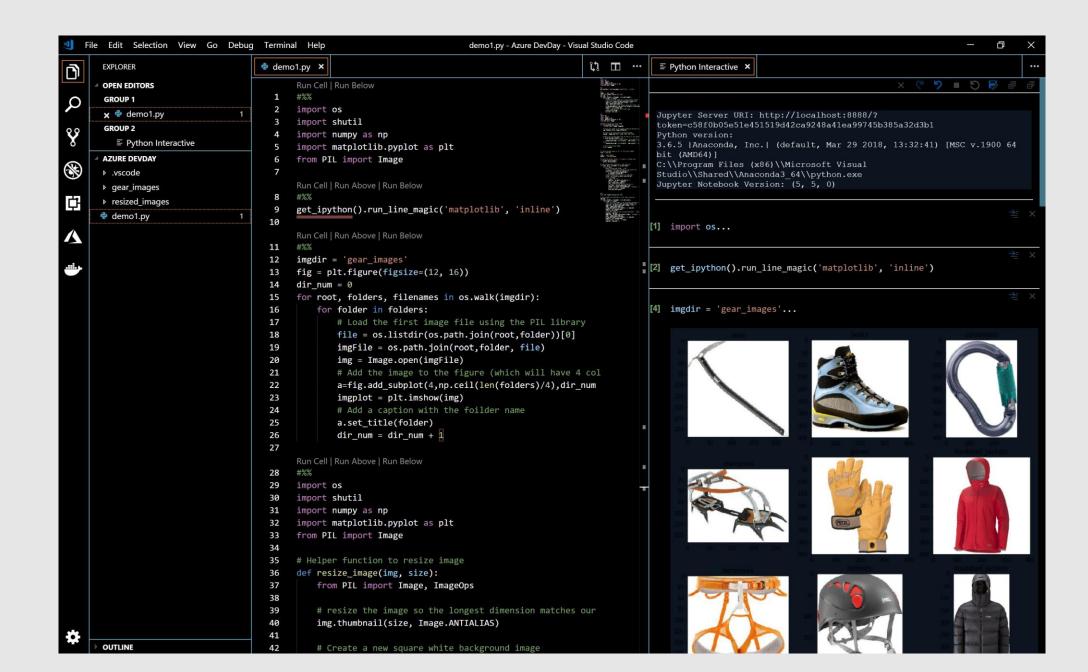
- ** Previous documentation and vsix installer are moved to the archive folder.
- **Supported Operating Systems**

Currently this extension supports the following 64-bit operating systems:

- Windows
- macOS









Azure Cognitive Services

- 1. Object Detection & Recognition for thousands of objects
- 2. Video Indexer (Preview)
- 3. Speech Recognition with customization
- 4. Speech Synthesis with customizable voice
- 5. Speech to Speech Translation
- 6. Text analytics with entity detection
- 7. Language Understanding (LUIS) with new integrated offer
- 8. QnA Maker is Generally Available
- 9. Bing Visual Search with smart identification
- 10.Bing Search SDK is Generally Available



Vision



Speech



Language



Conversation



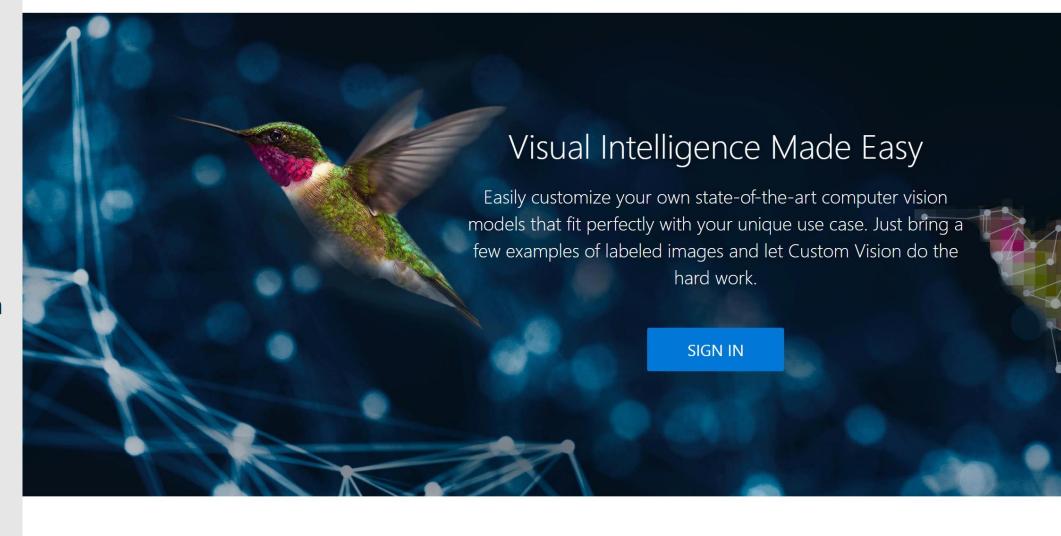
Bing Search

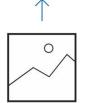


Knowledge

Demo

Custom Vision

















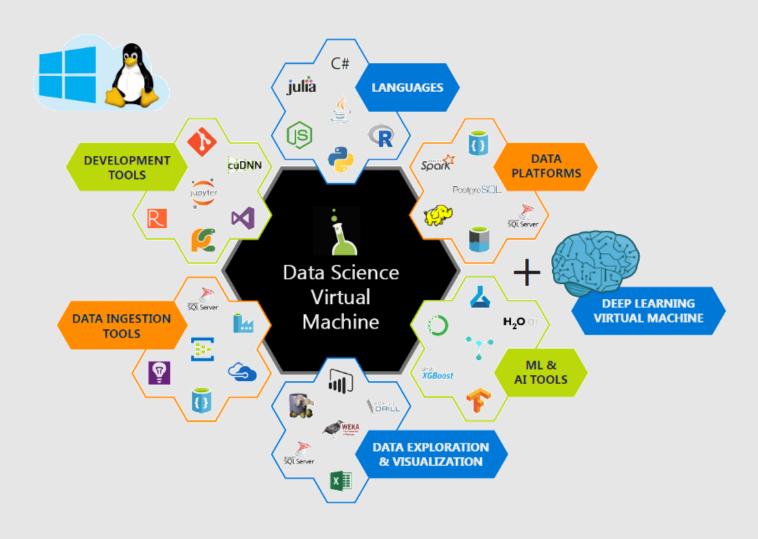






Data Science Virtual Machine(DSVM)

Pre-Configured environments in the cloud for Data Science & Al Modeling, Development & Deployment.



Data Science Virtual Machine(DSVM)



DSVM – Windows Server 2016



DSVM – Linux – Ubuntu



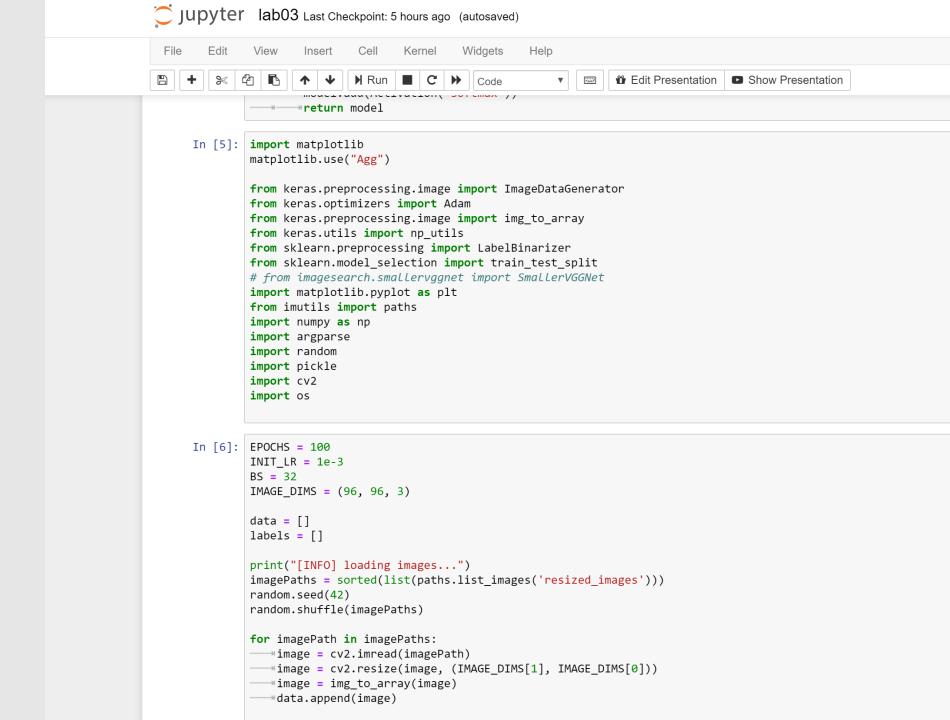
Deep Learning Virtual Machines

End-to-End AI Development Workflow using Data Science Virtual Machines (DSVM)



Demo

Jupyterhub on DSVM



Azure Machine Learning service

Azure Cloud Services



Python SDK

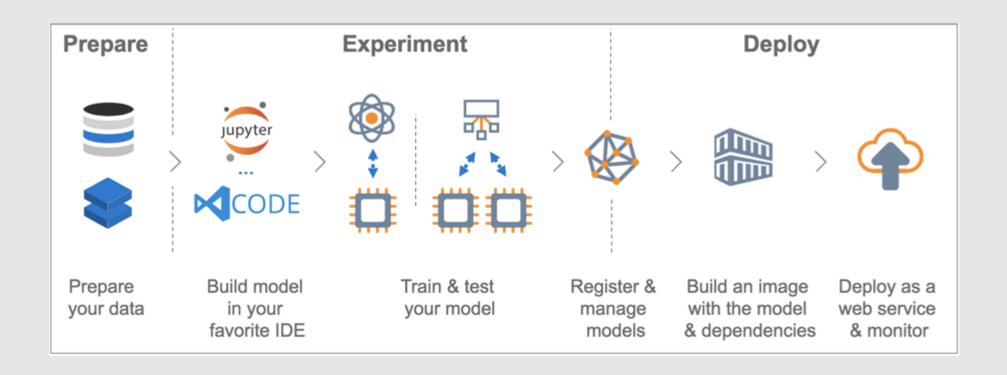
帮助你完成:

- ✓ 数据准备
- ✓ 编译模型
- ✓ 训练模型

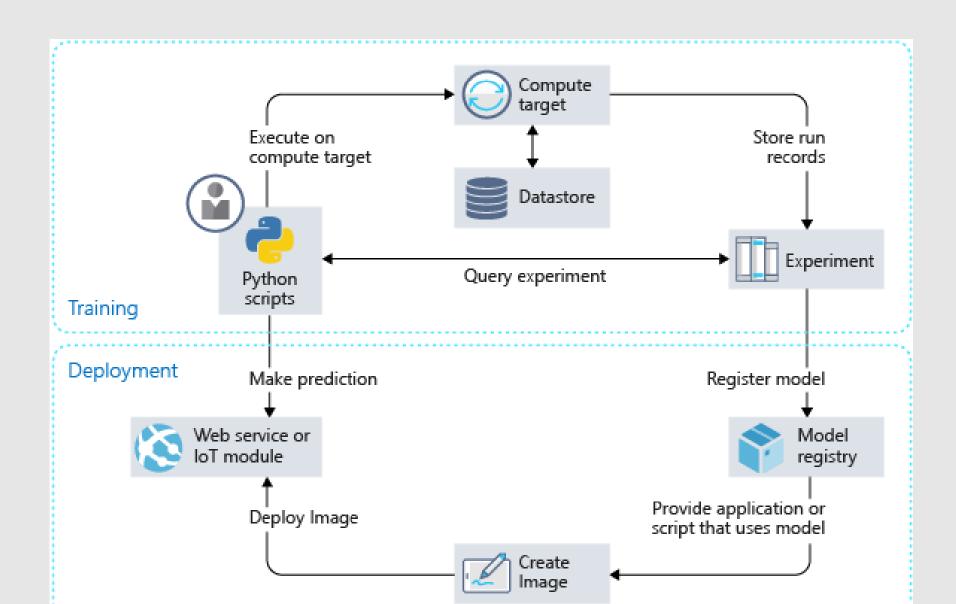
- ✓ 管理模型
- ✓ 跟踪训练
- ✓ 部署模型

Azure Machine Learning Service

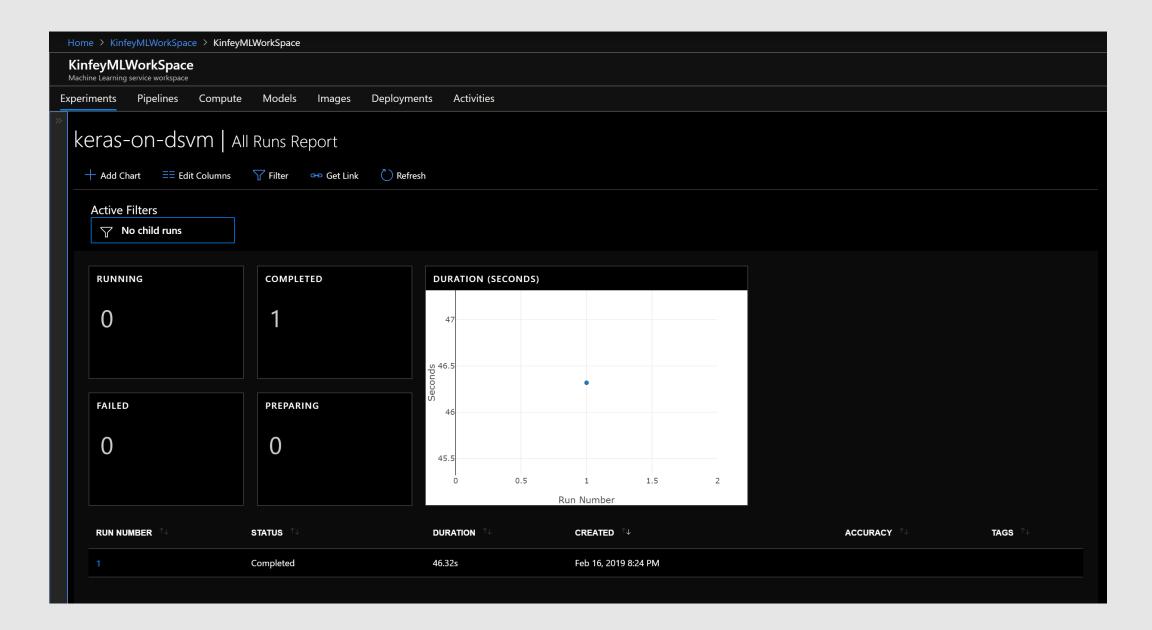
Azure Machine Learning service provides a cloud-based environment you can use to prep data, train, test, deploy, manage, and track machine learning models.



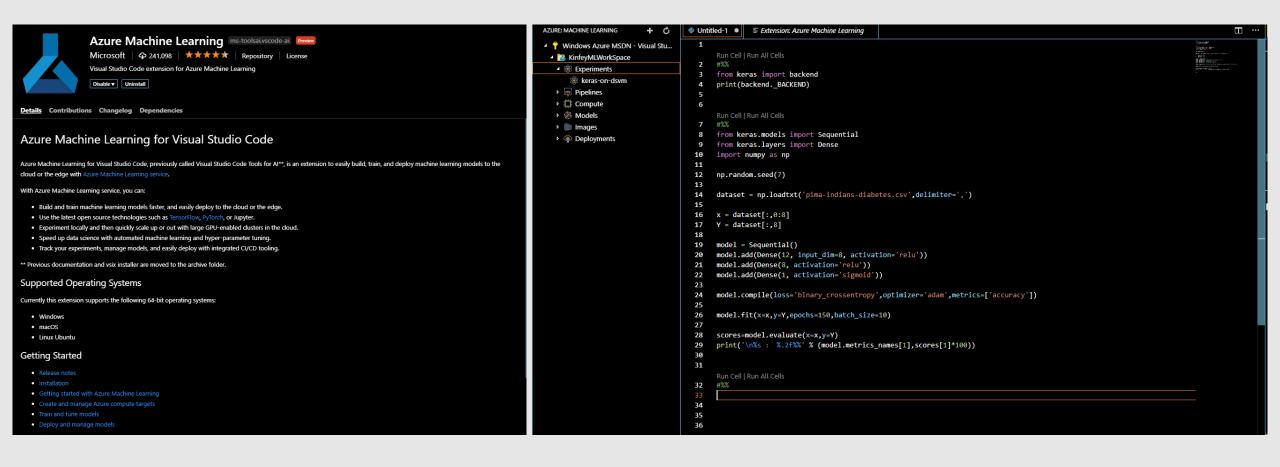
Azure Machine Learning Service

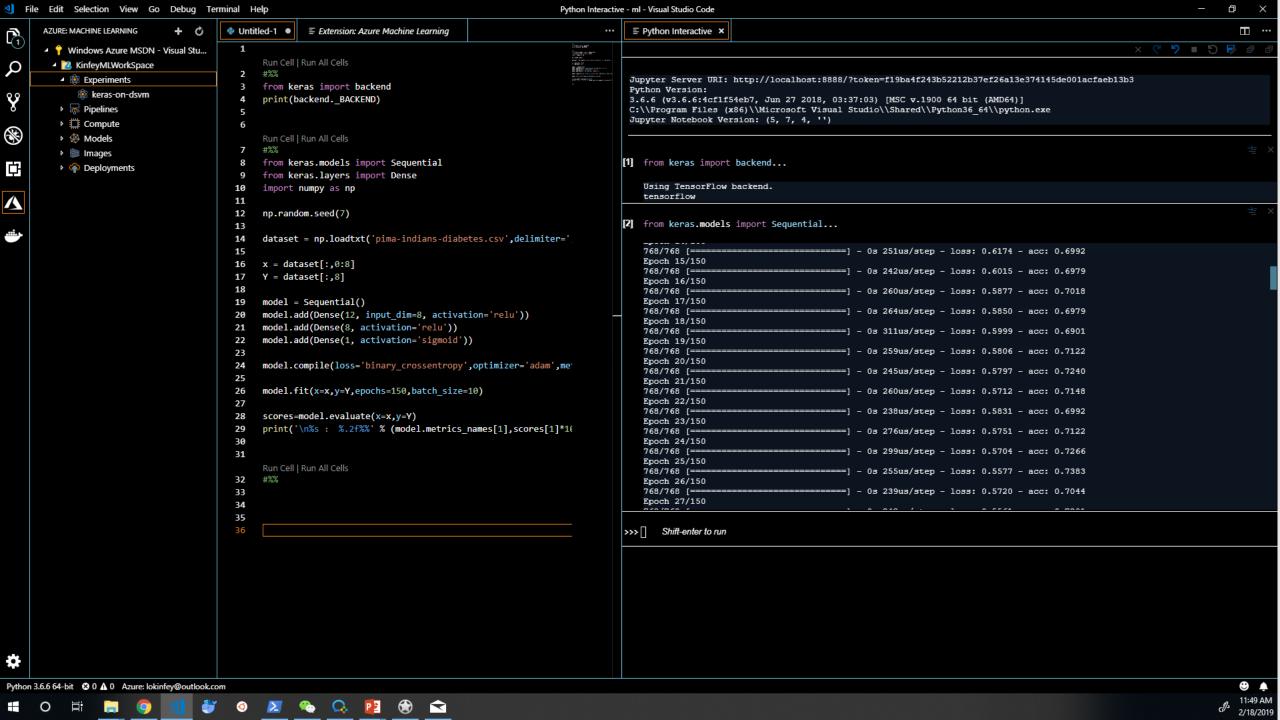


Azure Machine Learning Workbench



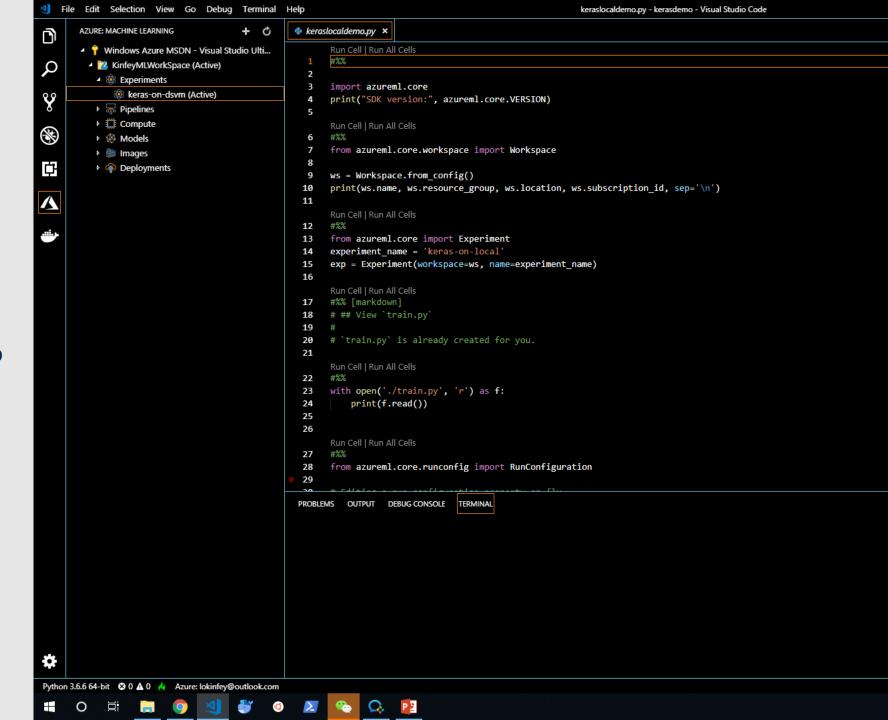
Azure Machine Learning Tools for VS Code





Demo

Azure ML Workbench Demo



Thank you