IBM Watson Studio

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About IBM Watson

- IBM'S software platform for data science
- Lets users collaborate and access analytical models
- Uses languages like R, Python, Scala
- Brings together open source programs like Rstudio and Python into a integrated environment

Set Up Instructions

Cloud vs. IBM Studio Desktop

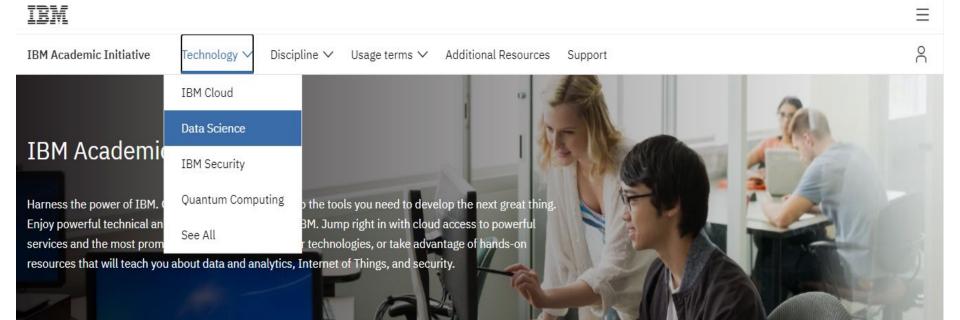
- With Cloud you can deploy to more environments like JupyterLab, Rstudio, Git, AWS,etc
- With Cloud, you can collaborate
- Desktop -includes Jupyter Notebook but not Lab

Cloud Instructions:

- Click on https://cloud.ibm.com/catalog/services/watson-studio
- Create account (Lite account is free)

Desktop Instructions:

- Free for students
- Create a account using <u>ibm.biz/academic</u>



Use your skills to take on climate change and join a community of developers and innovators using open source technology in the 2021 #CallforCode challenge.

What is the IRM Academic Initiative?

https://www.ibm.com/academic/technology/data-science



Watson Studio Desktop

Integrated SPSS Modeler functionality to drag-and-drop your way to ML, model building, and data exploration. Data science students can use Watson Studio Desktop to exercise their R and Python skills with Jupyter Notebooks. Use the integrated SPSS Modeler and Data Shaper to explore and chart data.

Download →

Product Information →

Stack Overflow →



ILOG CPLEX Optimization Studio

Analytical decision support toolkit for rapid development and deployment of optimization models using mathematical and constraint programming. It combines an integrated development environment with the powerful Optimization

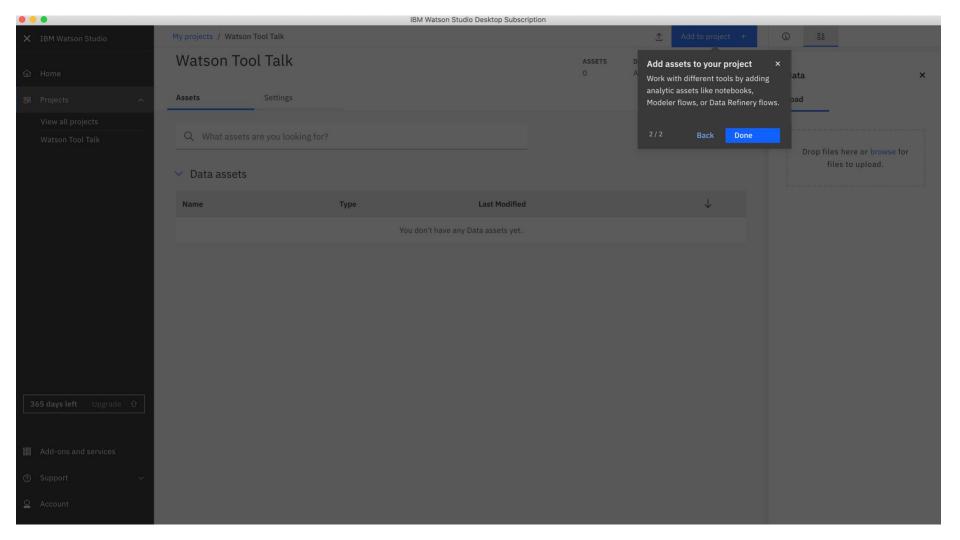
Programming Language and high-performance CPLEX and CP Optimizer solvers.

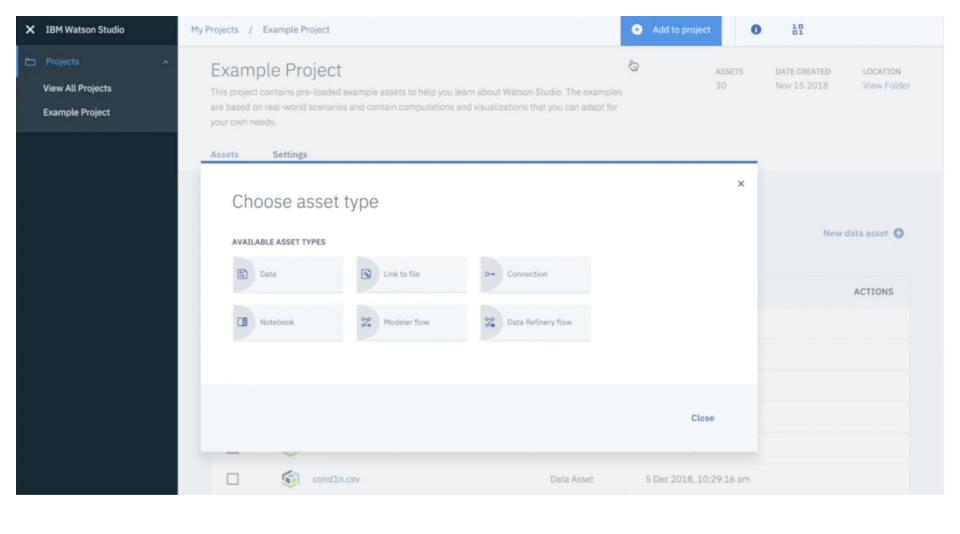
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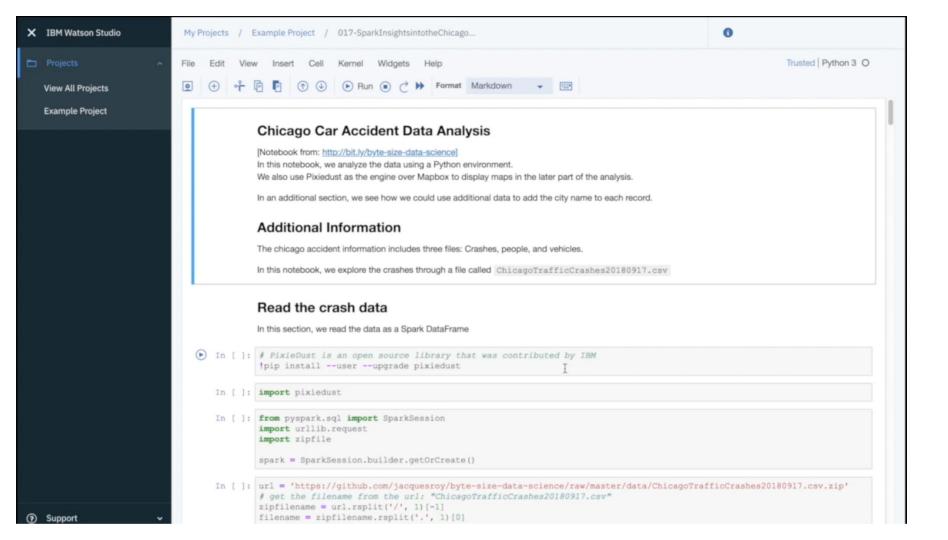
Product Information →

CPLEX Community →

Data Preparation on Watson







Jupyter Notebook with Cloud Version

Why use IBM Watson

- The simplest way to visualize data set
- Many tools to modify data set
- Significantly decreases runtime for long data sets
- Can use open source software like Jupyterlab and Anaconda without downloading the software
- Can access your work with any computer
- Can use collaborators