Building Your First Data Science Project in Microsoft Azure

DETERMINING WHICH TOOLS TO USE



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Overview



Intro to data science

Getting started

Tools

Setting up

Versioning

Test experiment



Introduction to Data Science



Introduction to Data Science



Commodity



Process



Career



Evolving



It is data that will surely fuel Industry 4.0—and will be the banks' most valuable asset for the remainder of this century

Eli Rosner



Uses of Data



Medical



Personalization



Targeting



Prediction



Cognition



Marketplace



Process

Capture **Analyze Process** Communicate **Maintain**



Career



Entering the field



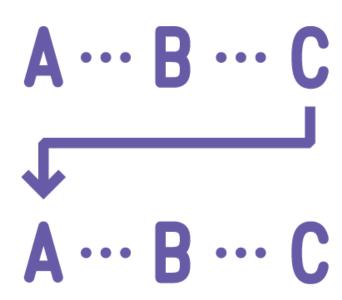
Finding your role



Advancing



Evolving



Hype cycle
Industry influx
Requirements convolution
Cloud



Identifying Constraints



Stages of a Data Science Project



Scoping



Development

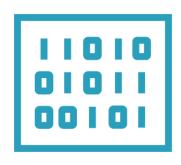


Deployment



Scoping







Determining data need

Locating data



Exploring data









Development



Create a data policy

Create a testable hypothesis

Create a test

Re-evaluate hypothesis



Deploying

Determining deployment environment

Creating the model

Testing the model

Change control

Exposing the model

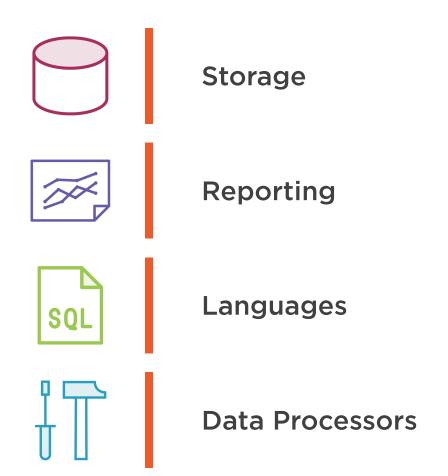
Repeat



Tools Discussion

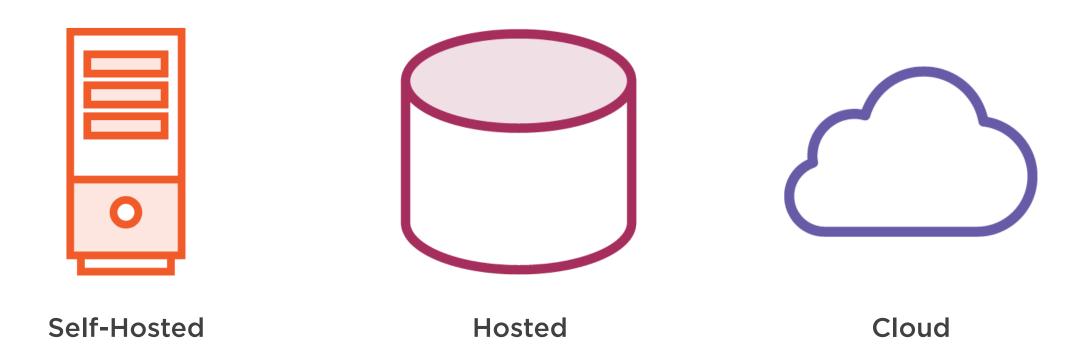


Tools





Storage



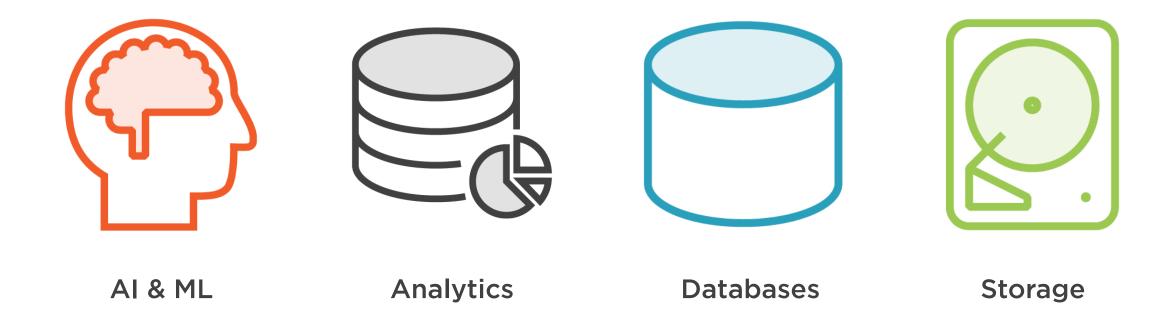


Storage

Characteristics Hierarchy Media



Storage in Azure





SAP Business Intelligence

MicroStrategy

Sisense

SAS Business Intelligence

Yellowfin BI

Dundas BI

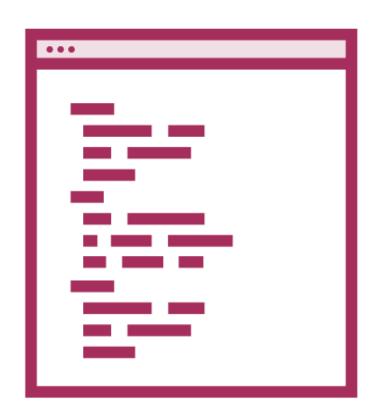
TIBCO Spotfire

Microsoft Power BI





Languages



SQL

Python

R

Scala

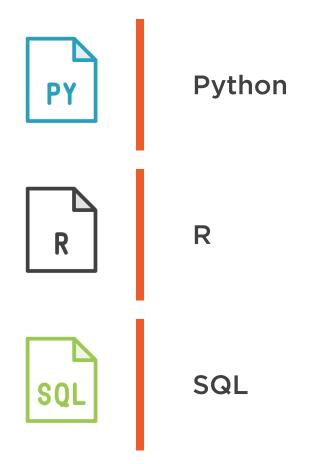
SAS

MatLab

Hive C/C++



Languages



Apache Hadoop Apache Spark Apache Storm Apache Cassandra SQL Data Warehouse **Azure Data Factory Azure Stream Analytics**





Review



Introduction to data science
Stages of a data science project
Tools

