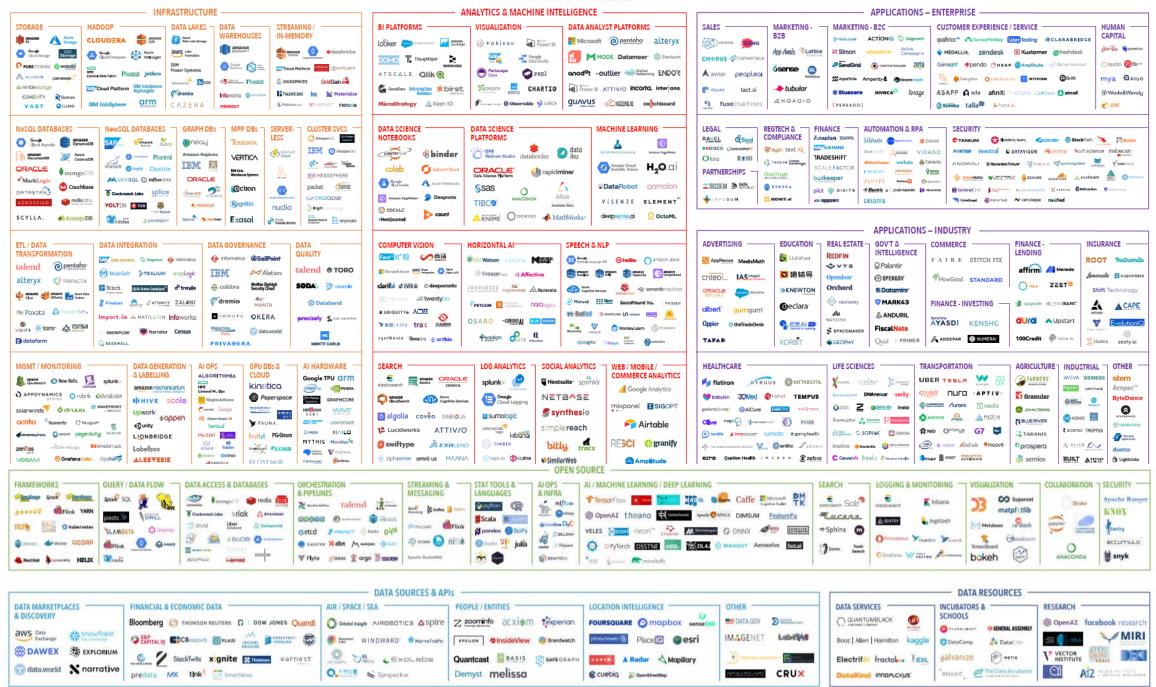
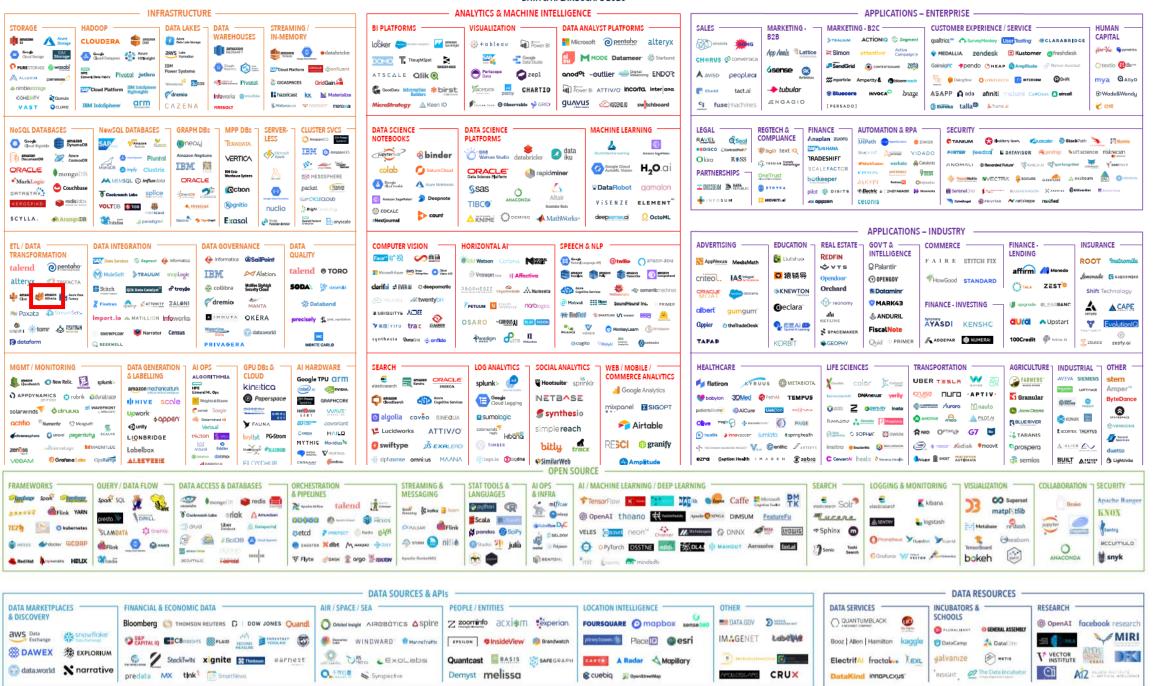
AWS Athena & AWS SageMaker

Dr. Villanes

DATA & AI LANDSCAPE 2020

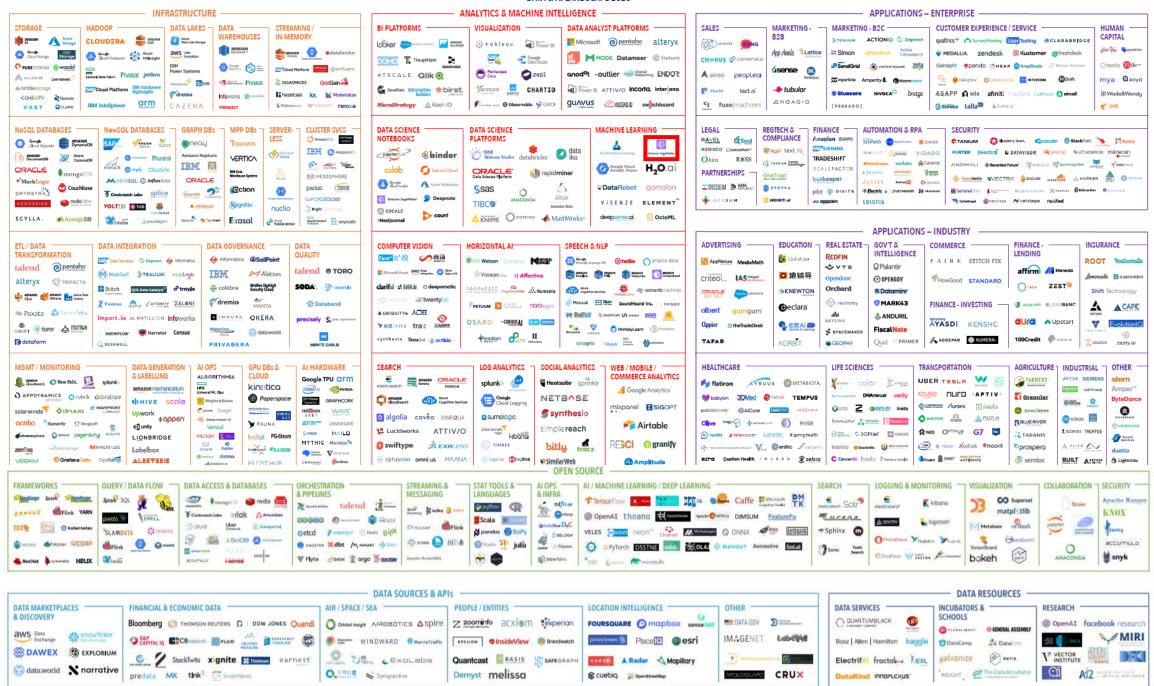


DATA & AI LANDSCAPE 2020



http://mattturck.com/wp-content/uploads/2020/09/2020-Data-and-Al-Landscape-Matt-Turck-at-FirstMark-v1.pdf

DATA & AI LANDSCAPE 2020



http://mattturck.com/wp-content/uploads/2020/09/2020-Data-and-Al-Landscape-Matt-Turck-at-FirstMark-v1.pdf

What is it?

- Interactive query service that makes it easy to analyze data in Amazon S3 using standard SQL
- Athena is serverless: no infrastructure to manage
- Pay only for the queries that you run
- Benefit: the process is easy for anyone with SQL skills to quickly analyze large-scale datasets.



Steps needed



Select a data set

Identify where your data is located in S3. Athena allows you to query data in CSV, TSV, JSON, Parquet, and ORC formats.



Create a table

Use the Create Table Wizard or write your own DDL (Data Definition Language) statements using Hive.



Query data

Run queries on your data. Amazon Athena supports ANSI SQL queries.

Benefits

- Amazon Athena uses ANSI SQL
- Works with a variety of standard data formats, including CSV, JSON, ORC, Avro, and Parque
- Athena is ideal for quick, ad-hoc querying
- It can also handle complex analysis, including large joins, and functions
- Amazon Athena automatically executes queries in parallel, so most results come back within seconds.

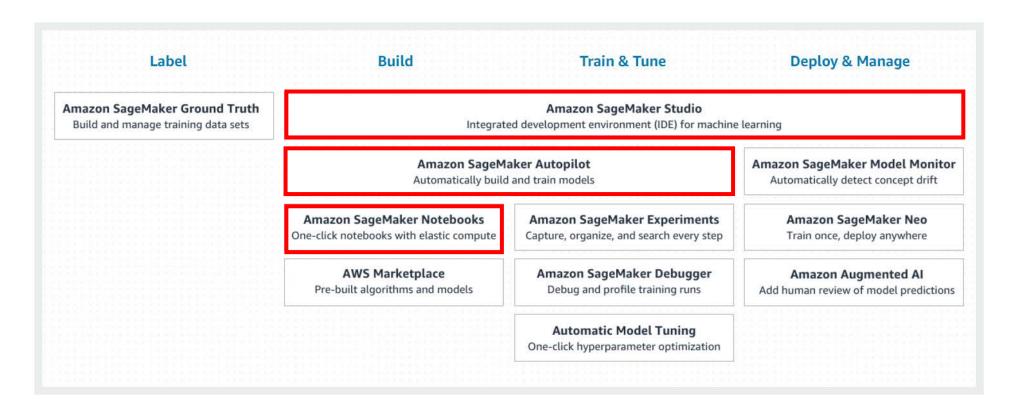
Demo AWS Athena

AWS SageMaker



What is it?

 Fully managed service that provides ability to build, train, and deploy machine learning models quickly.



How to load data from S3?

• conda install -c conda-forge s3fs==0.3.0

```
conda install -c conda-forge s3fs==0.3.0
```

import pandas as pd train_set = pd.read_csv('s3://sagemaker1109/MLProject21_train.csv')

```
import pandas as pd
train_set = pd.read_csv('s3://sagemaker1109/MLProject21_train.csv')
```

