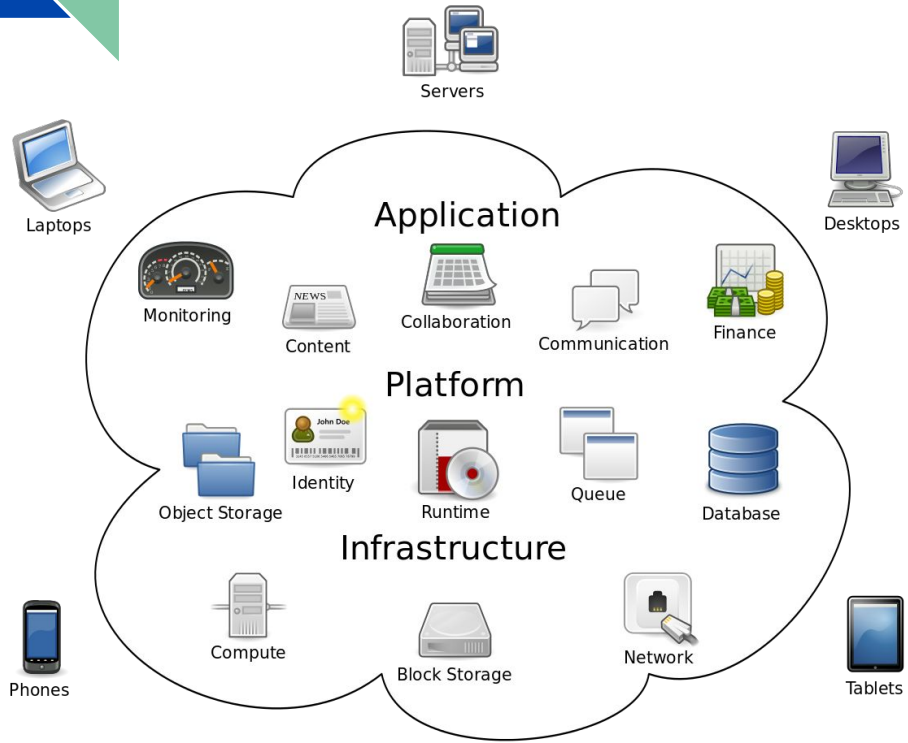
Intro to Cloud Computing and Machine Learning

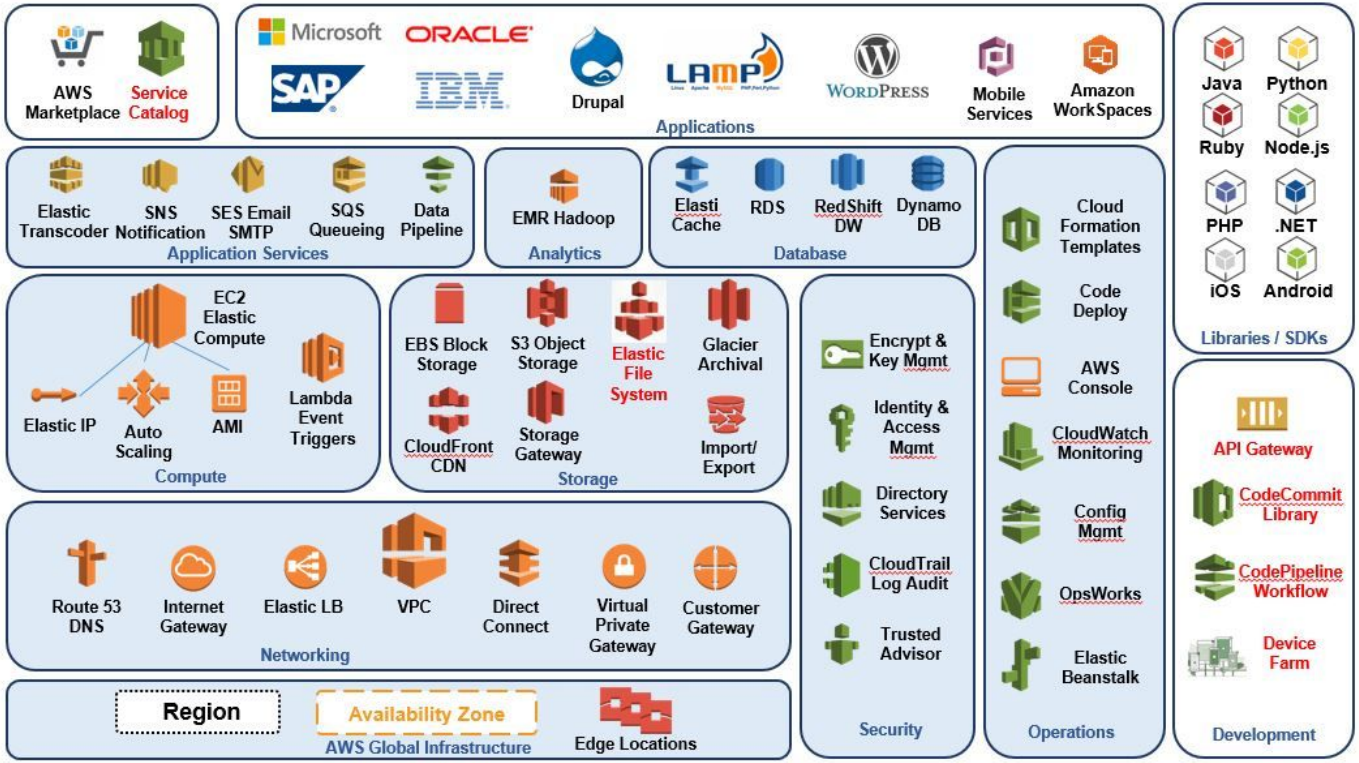
TEAM JSA: Jingchao Zhou & Simran Regmi

What is Cloud Computing?



on-demand delivery of computing services, such as servers, databases, intelligence, over the Internet

Amazon Web Services



Google Cloud Platform

Compute

Storage & Database

Networking

Big Data

Developer Tools

Identity & Security

Internet of Things

Cloud AI

Management Tools

Data Transfer

Microsoft Azure

Advantages of Cloud Platforms

- The cloud's pay-per-use model is good for bursty AI or machine learning workloads
- The cloud makes it easy for enterprises to experiment with machine learning capabilities and scale up as projects go into production and demand increases
- The cloud makes intelligent capabilities accessible without requiring advanced skills in artificial intelligence or data science
- AWS, Microsoft Azure, and Google Cloud Platform offer many machine learning options that don't require deep knowledge of AI, machine learning theory, or a team of data scientists

Tools and Commands

a fully managed machine learning service that allows oneself to build and train machine learning models

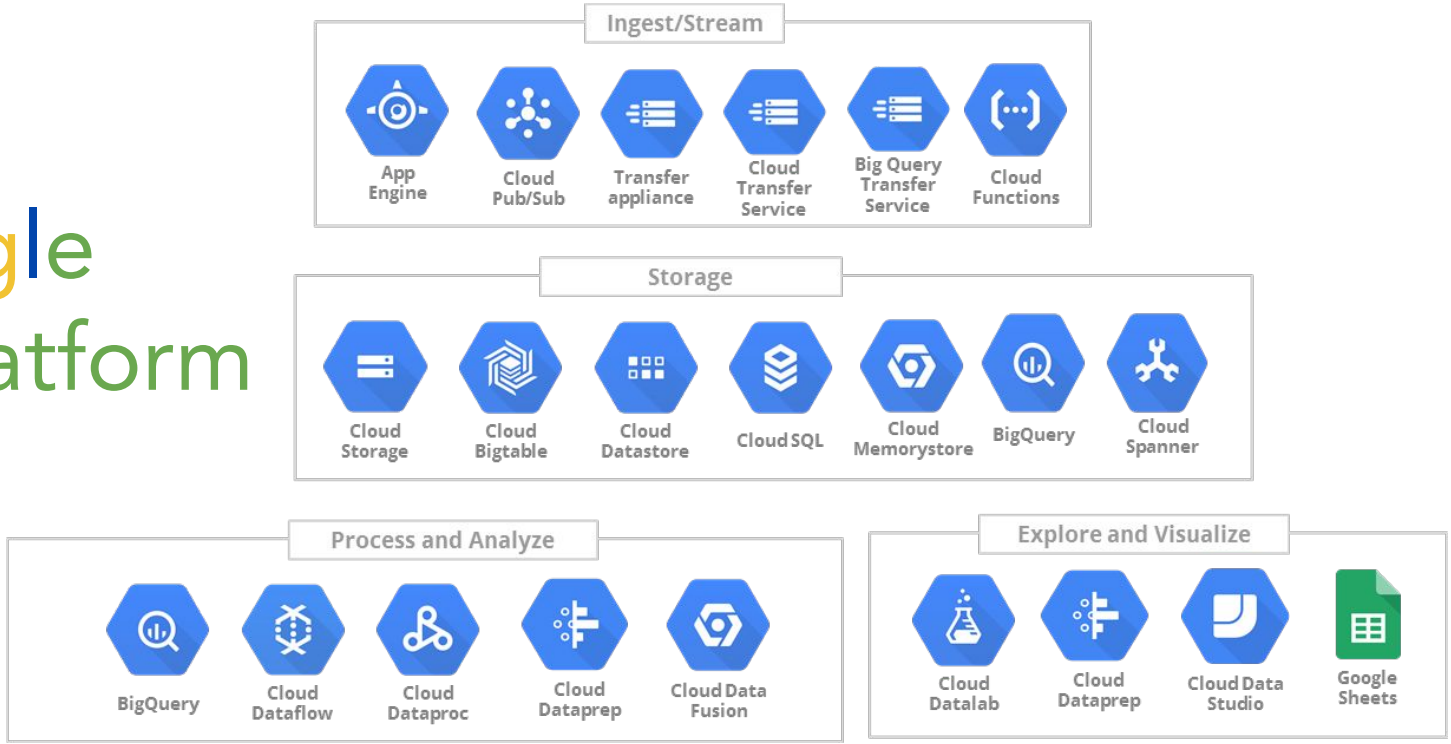
a cv software that allows one to identify a person in a photo or video using private repositories of face images

a data storage service that has the capability to store the dataset that powers our model training process

a big data tool that processes vast amounts of data using open source tools such as Apache Spark

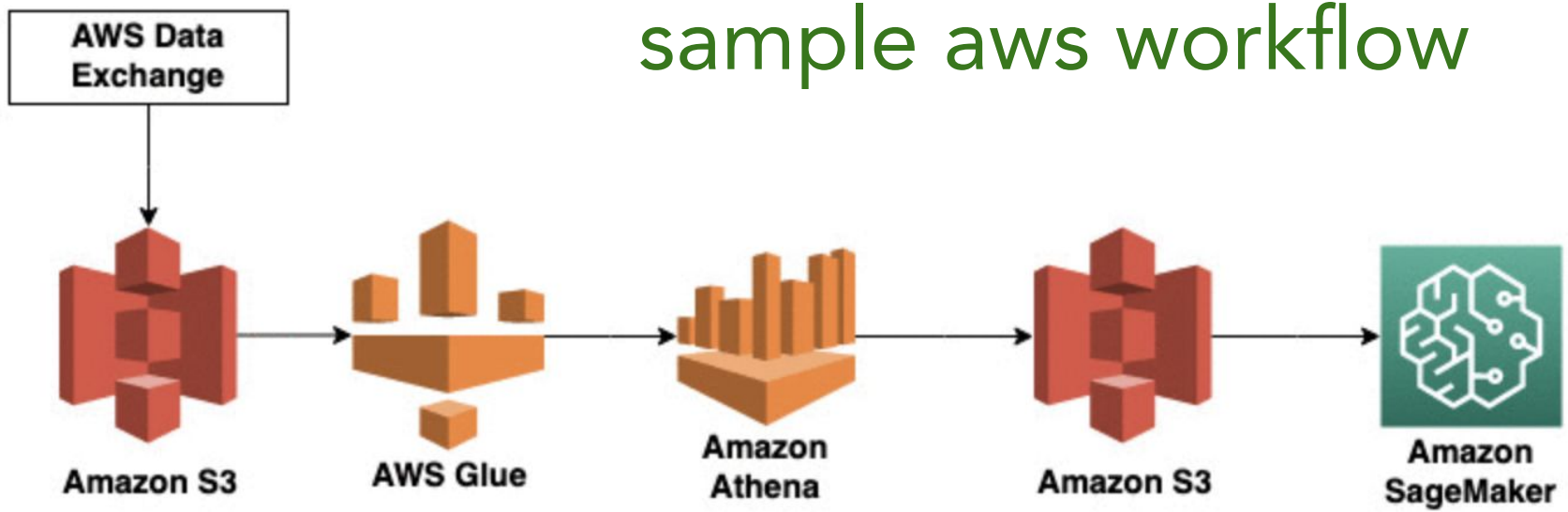
Introduction to ML Workflows

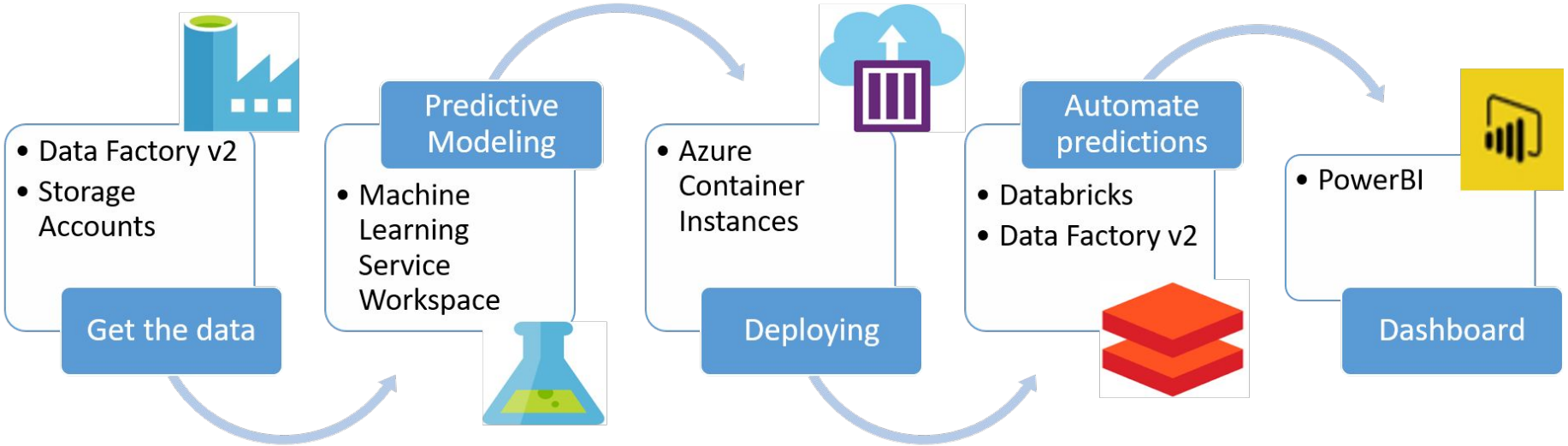
google cloud platform



Introduction to ML Workflows

sample aws workflow



Introduction to ML Workflows

sample microsoft azure workflow