

## Machine Learning and AI services

Amazon Sage Maker is a fully managed service to build train and deploy machine learning models at scale

Apache MXNet on AWS, open source deep learning framework

Tensorflow on AWS, open source machine intelligence library

PyTorch on AWS, open source machine learning library

Amazon SageMaker ground truth is data labeling service.

Amazon Augmented AI human intervention review service.

When sagemaker uses machine learning to make a prediction and is not confident it has right answer it queue up the prediction for human service.

There are more than 15 AI services that Amazon Provides some of them are

Amazon codeguru-code analysis service

Amazon polly- text to speech

Amazon textract and ocr- extract text from scanned documents

Amazon Deep learning AMIs- pre installed with popular deep learning framework

Amazon fraud detector- fully managed fraud detection as a service.

## Big Data and Analytics Services

There are many service available few of them are

Amazon Athena is a serverless query service, it can take a bunch of CSV or JSON files in an S3 bucket and load them into temporary SQL tables.

Amazon CloudSearch is a fully managed full text search service.

Amazon Redshift- it is a petabyte-size data warehouse

Amazon QuickSight- it is a business intelligence (BI) dashboard

AWS Data Pipeline automates the movement of data. We can move data reliably between compute and storage services.

Amazon QuickSight- It is a Business Intelligence dashboard that allows you to ingest data from various AWS storage or database services to quickly visualize business data with minimal programming or data formula knowledge

Example of BI dashboard



Some other services are

Amazon Bedrock- A large language model (LLM) cloud service offering to generate text and images. Think like ChatGPT

Amazon CodeWhisperer- Predict code to meet our use case. Think like GitHub Copilot.