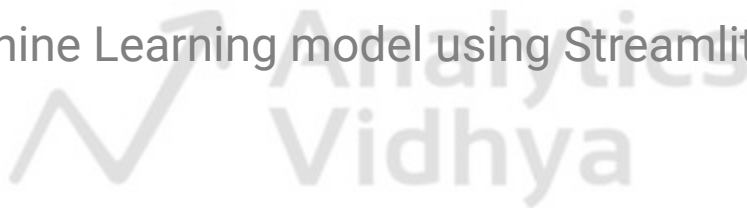


Introduction to Amazon Web Services (AWS)

What we will be covering in this module?

- Introduction to Amazon Web Services (AWS)
- Spinning up an AWS server
- Deploying Machine Learning model using Streamlit and AWS



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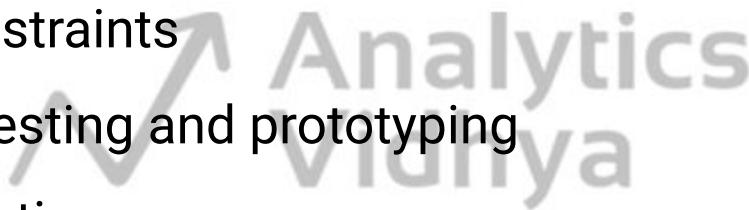
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Challenges with the approach (Streamlit + Google Colab)

- Reliability
- Hardware constraints
- Intended for testing and prototyping
- Not for production use cases



Cloud Computing Alternatives

- AWS



- Azure



- Google Cloud



Cloud Computing Alternatives

- AWS








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What are Amazon Web Services (AWS)?

Migrate	 AWS Snowball	 AWS Server Migration Service	 AWS Database Migration Service	 AWS Application Discovery Service
Compute	 AWS Lambda	 Amazon Elastic Container Service	 AWS Fargate	
Database	 Amazon RDS	 Amazon DynamoDB	 Amazon ElastiCache	 Amazon Aurora Serverless
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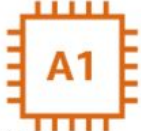



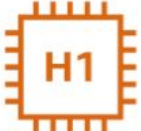
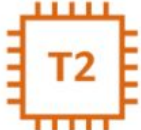
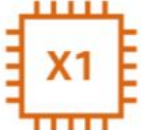



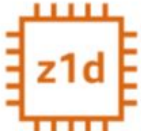
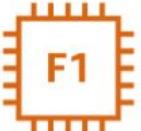

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Understanding AWS EC2 Server

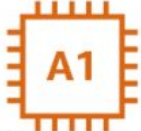



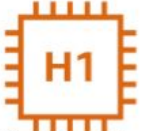

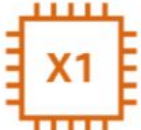



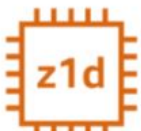
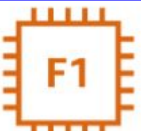



Amazon EC2

Understanding AWS EC2 Server

General Purpose	Compute Optimised	Memory Optimised	Accelerated Computing	Storage Optimised
 ARM based core and custom silicon	 Compute - CPU intensive apps and DBs	 RAM - Memory intensive apps and DB's	 Processing optimised - Machine Learning	 High Disk Throughput - Big data clusters
 Tiny - Web servers and small DBs		 Xtreme RAM - For SAP/Spark	 Graphics Intensive - Video and streaming	 IOPS - NoSQL DBs
 Main - App servers and general purpose		 High Compute and High Memory - Gaming	 Field Programmable - Hardware acceleration	 Dense Storage - Data Warehousing

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Thank you