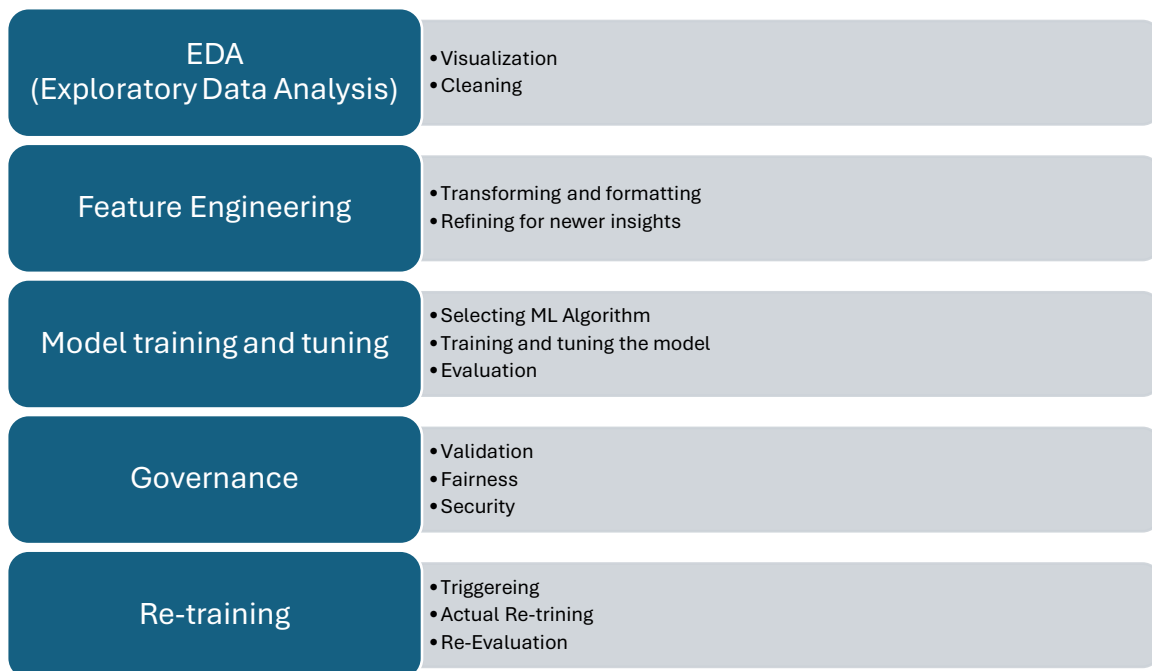


## Why ML Ops?

1. Less chances of error
2. Ease of scalability
3. Collaboration
4. Increased efficiency
5. High reliability
6. Cheap to execute

## Key Components:



## AWS

### 1. Amazon SageMaker

Building, training, and deploying ML models.

### 2. AWS Lambda

Serverless compute service for running code

### 3. Amazon CloudWatch:

For monitoring the performance of ML models in production

4. **AWS Glue:**

ETL service

5. **AWS Step Functions:**

Manages the steps involved in creating ETL pipelines

## **GCP**

1. **Vertex AI:**

platform for managing the ML lifecycle

2. **BigQuery:**

Manages data warehouse for large-scale data analytics

3. **Cloud Storage:**

4. **Kubeflow:**

Managing ML workflows on Kubernetes.

**Cloud Functions:**

## **Azure**

1. **Azure Machine Learning**

Building, training, and deploying machine learning models

2. **Azure DevOps**

Automating build and release pipelines

3. **Azure Kubernetes Service (AKS)**

Managed Kubernetes for deploying and managing ML models

4. **Azure Blob Storage**

Object storage for datasets, models, and versioning of model artifacts.

5. **Azure Functions**

Serverless compute service for automating tasks