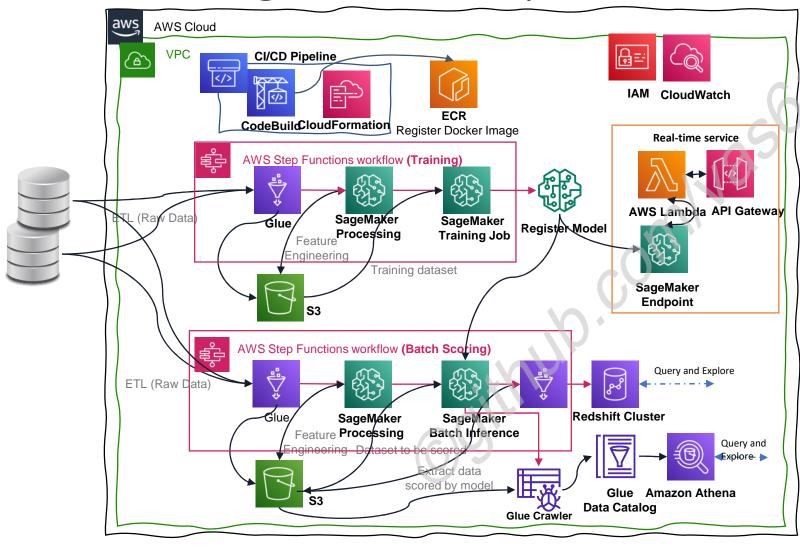
ML using AWS Ecosystem



- Establish a <u>CI/CD pipeline</u> for both training and scoring pipeline. As part of this pipeline
 - Register docker images required for SageMaker in ECR
 - II. Use CloudFormation template to define all the resources required, **IAM** roles and policies
- 2. Use **AWS StepFunction** to orchestrate **training and batch scoring workflow**
- 3. Model training pipeline has the following step
 - I. Data extraction from lake / warehouse using Glue
 - II. Feature engineering using SageMaker Processing job (Spark / Python)
 - III. Model training using SageMaker training job and Register the model with SageMaker
- 4. Batch scoring pipeline has the following step
 - I. Data extraction
 - II. Feature Engineering
 - III. Batch Inference using SageMaker Batch Transform
 - IV. Load inference to a Redshift cluster or update a Glue Catalog by running glue crawler
 - V. Data Scientist / Engineers / Customers to consume data from RedShift Cluster Or Athena query
- 5. Use CloudWatch to log the log messages and operational, model monitoring metrics
- 6. The **Real-time Endpoint** is optional and only required if exposing model via REST API.