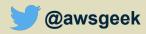
Building an ML-Enabled Bot on AWS









Jerry Hargrove

Cloud Architect & Evangelist

at Lucidchart







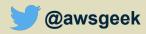


Building an ML-Enabled Bot on AWS

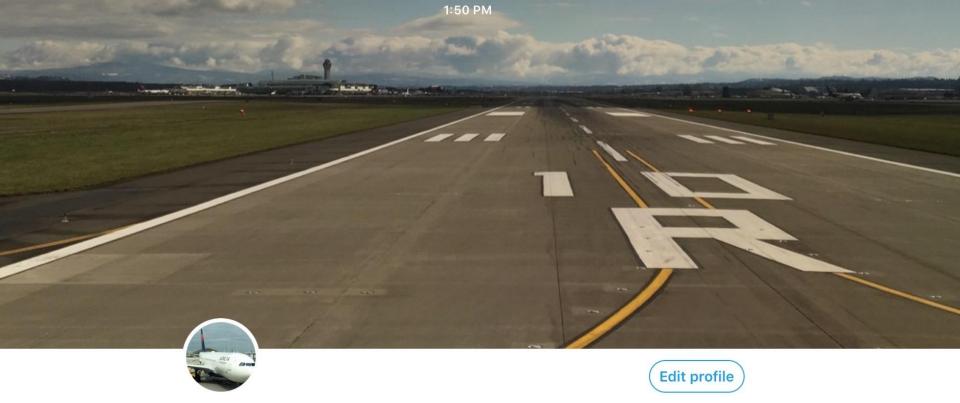








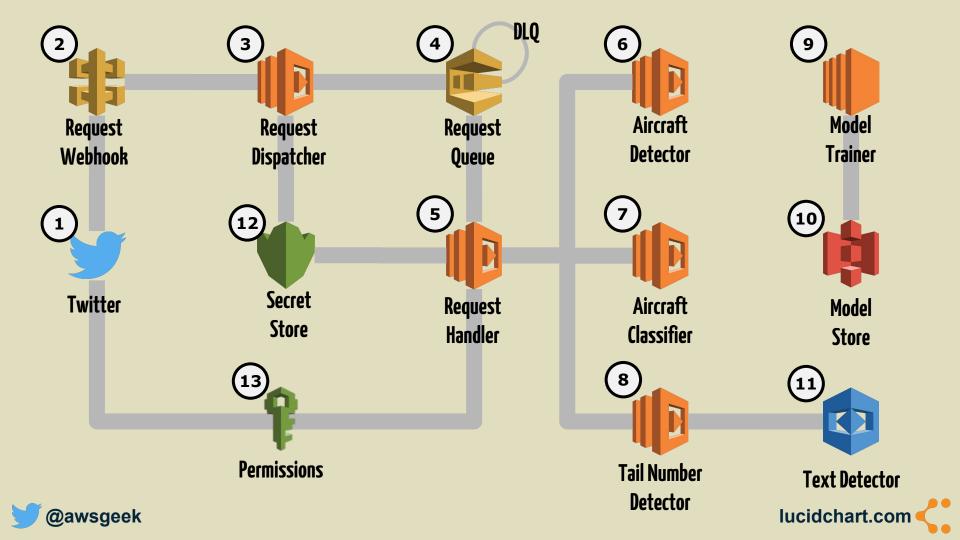




AircraftML

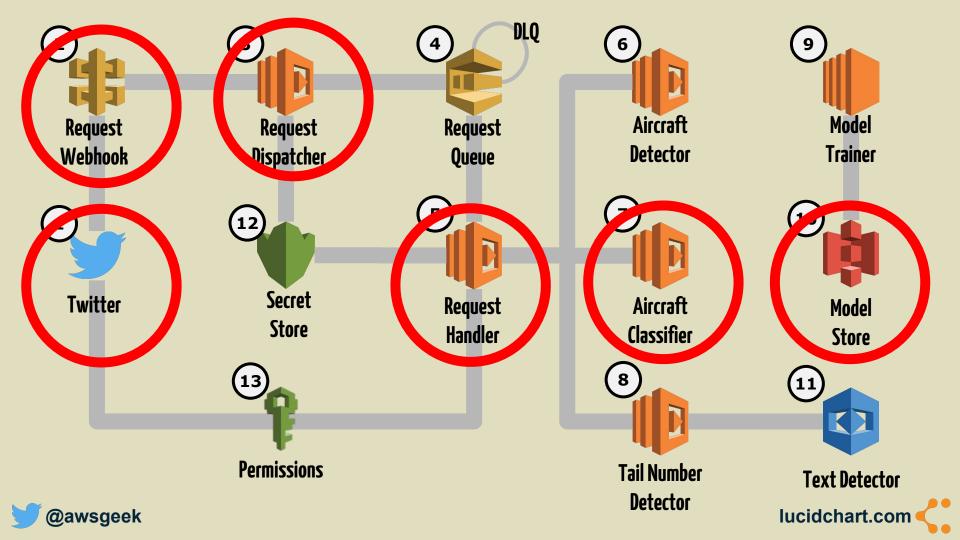
@AircraftML

Send an aircraft pic & I'll guess what it is. Built w/Sagemaker, Rekognition, SQS, Lambda & Fargate. By @awsgeek



But we don't have that much time





Lets build this instead:



An Aircraft Classifier

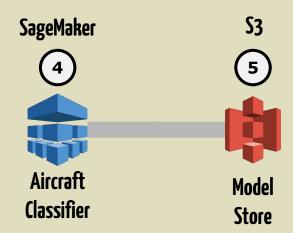




agenda



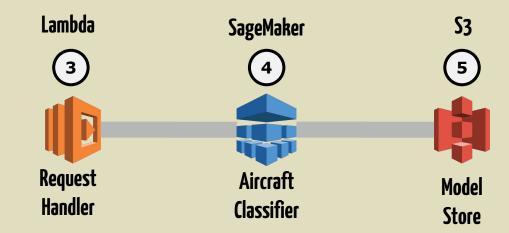




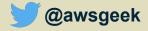
The Classifier







Private interface







Public interface







Slack bot





Before we get started:

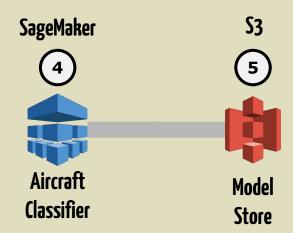
To get the most out of this tutorial, you should:

- Have some experience with AWS
- Have some experience with AI/ML



Train (and deploy) an aircraft classifier using Amazon SageMaker





The Classifier







Amazon SageMaker

Build, train, and deploy ML models at scale

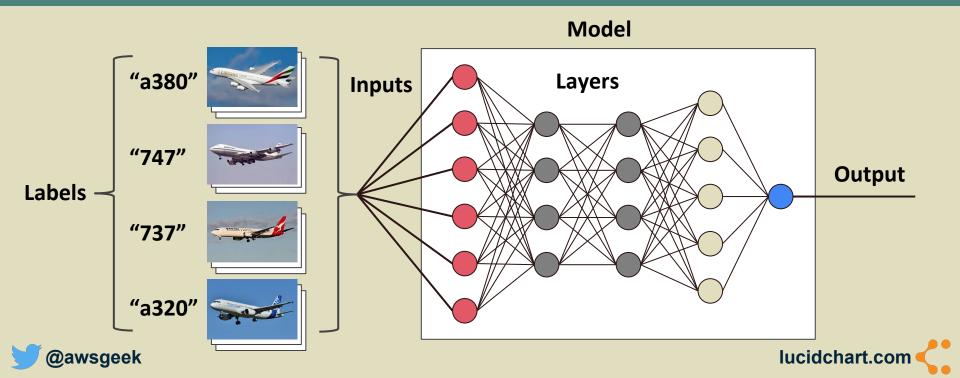
- Ad targeting
- loT & machine learning
- Credit default prediction
- Content quality prediction





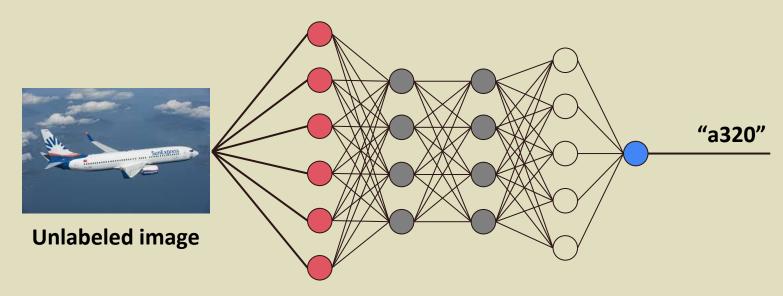
Classification

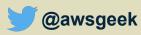




Prediction

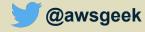


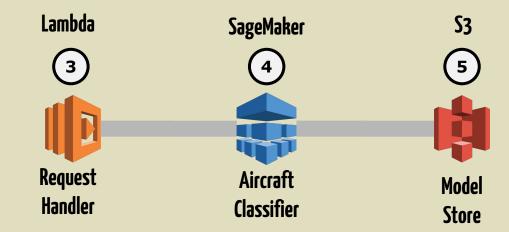






Build a private interface for your aircraft classifier using AWS Lambda





Private interface







AWS Lambda

Serverless computing Pay only while code runs

- Bring your own code
- Java, Node.js, C#, & Python
- Fully managed, scalable
- Exec triggers like S3, API Gateway, DynamoDB, ect



Build a public interface fort your aircraft classifier using Amazon API Gateway & AWS Lambda





Public interface







Amazon API Gateway

Create, maintain, and secure APIs at any scale

- Request throttling and response caching
- API Lifecycle management
- Monitoring & metrics
- Auth





Build a Slack bot to send requests to your aircraft classifier







Slack bot





Tear it all down!





Cleanup





Thank You!



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