

How Engaged Are your Posts?

Social Image Analytics Jack McCush – Teradata

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Overview

Problem Statement:

- Marketing has reactive tools to optimize revenue available through social media
- Enable predictive consumer engagement across image and account factors

Theoretic Customer Scenario:

- Priceline (\$12.7 B revenue) looking to catch Expedia
- 30% of \$4.3 B current digital spend on social media
- ROI Discussion: 2-4% sales growth, or ~\$380 M above current growth trends with image optimization







Introducing Project Cyclops

Model Training





- Top 5 Classes for each image
- Class is attribute, probability of class is attribute value
- With 50K+ images, 997 classes represented







XGB.pickle

Model





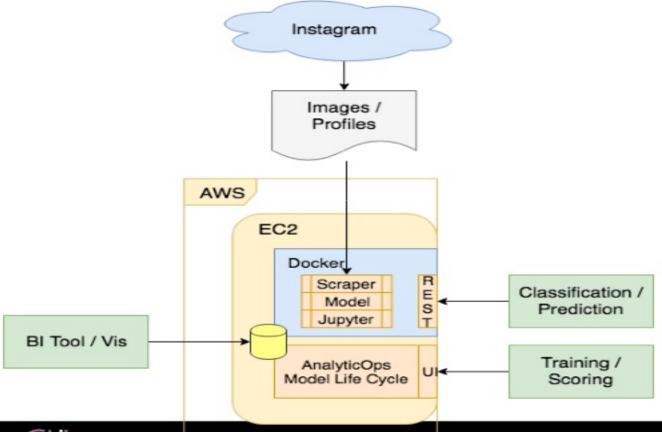
Predicted: [
('seashore', 0.8395325),
('lakeside', 0.14620699),
('breakwater', 0.0025936835),
('pier', 0.0018090468),
('picket_fence', 0.0015644263)]





= 2,300 Predicted Likes

Architecture Deployment Methodology



Provide the end user with a REST API where they can receive a prediction of a given image impact:

- Download images from accounts into an AWS S3 storage.
- Deploy and train the model using AnalyticOps.
- Dockerize the trained model.
- The REST API invokes the prediction and returns the insight.

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Demo!



Continued Development: Project Cyclops



Oil & Gas: Structural Inspection



Healthcare: Dermatologic Severity



Retail: B to B to C



Security: Smart Camera; Smart City

