

HelloJarvis ML as a Service Platform

- Simple, scalable, effective and cutting edge
- Fully managed cloud service to push data, build, deploy and publish your predictive solution
- Leverage existing general purpose prediction APIs or build your own
- Evaluation metrics to see how well your ML model is performing
- A/B framework to run multiple ML models simultaneously
- Auto-switch based on model accuracy

Highlights

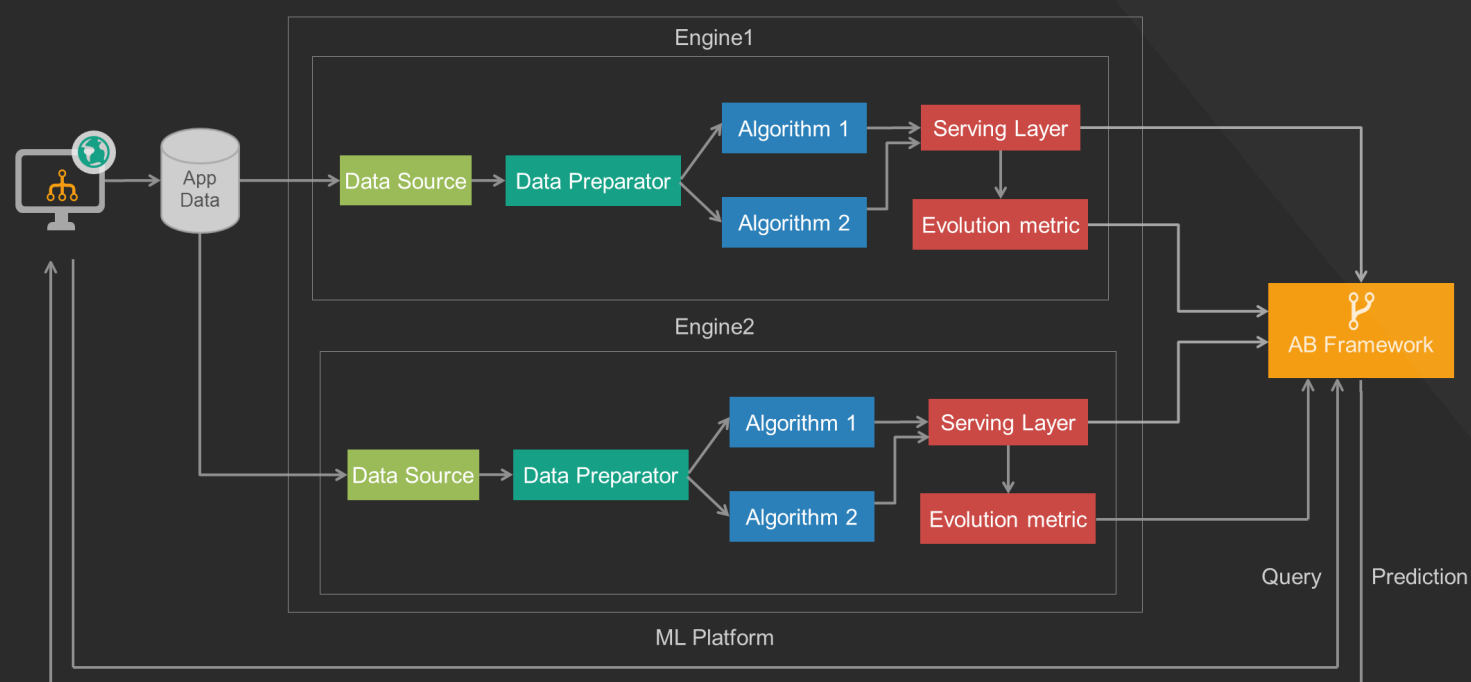
- HelloJarvis is built on Apache PredictionIO
- Train, build and deploy ML Engine as a web service
- Service can be queried through REST API
- Bundled with Apache Spark, MLlib, HBase, Spray and Elasticsearch
- Pluggable data sources. Supports file system, HDFS (Hadoop Distributed File System), JDBC

Current offerings

- Sentiment Analysis
- Topic Prediction
- Social Network Analysis
- Content recommendation

Coviam is an active contributor of ApachePredictionIO template gallery

HelloJarvis's Architecture





Sentiment Analysis – Comparative Results

Test Cases (taken from a survey)	Actual Category	 Google Text Analytics Api (polarity [-1,1] larger number indicates more positive sentiment) [-1:-0.7][-0.7:0.25][0.25:1.0] from very negative to positive	 Aylien Sentiment Analysis API,	 Monkeylearn Sentiment Analysis API (analyzed with model trained with tweets)	 Monkeylearn Sentiment Analysis API (analyzed with model trained with product reviews)	 HelloJarvis algorithm (trained with tweets)
split work load. my job is very much and i can't learn new technology	Negative	Negative, Polarity: -1	Negative, Polarity Confidence : 0.83	Negative, Probability : 1	Positive, Probability : 0.67	Negative, Score : 0.97
I dream of technology driven company, not marketing driven	Negative	Positive, Polarity: 1	neutral, Polarity Confidence : 0.43	Negative, Probability : 0.82	Negative, Probability: 0.58	Positive, Score : 0.78
The places for work right now is too small for all employees to work, need more building or room to make work more comfy	Negative	Negative, Polarity: -1	Negative, Polarity Confidence : 0.87	Neutral, Probability : 1	Positive, Probability : 0.581	Positive, Score : 0.53
Overall the things are good. But, I've thought about the air conditioner makes my body feel like ice. It's because the air conditioner directs on the desk. But, the other desks are not directed and warmer. I hope the room can stable.	Slightly negative	Positive, Polarity: 0.7	Positive, Polarity Confidence : 0.98	Positive, Probability : 1	Positive, Probability : 0.501	Negative, Score : 0.99
not just focus on the product, but process is must be well defined and recognized by all stakeholders	Slightly negative	Positive, Polarity: 1	Negative, Polarity Confidence : 0.503	Negative, Probability : 1	Positive, Probability : 0.501	Negative, Score : 0.99
Please fix about the time work. Can we really sometime doing a Job by remotely. Sometime i really boredom with usually routines.	Negative	Neutral, Polarity: 0.2	Negative, Polarity Confidence : 0.77	Negative, Probability : 0.849	Positive, Probability : 0.619	Positive, Score : 0.52
would be great if leaders can share upcoming project / promo /releases to the performance team, long before the deadline , so we can have time to prepare more	Neutral	Positive, Polarity: 1	Positive, Polarity Confidence : 0.96	Positive, Probability : 1	Positive, Probability : 0.501	Positive, Score : 0.99
new ways for company to communicate business roadmap and company strategy to all members in company. so, we can align and aware what comes next and be prepare.	Neutral	Positive, Polarity: 0.4	Neutral, Polarity Confidence : 0.68	neutral, Probability : 1	Positive, Probability : 0.501	Positive, Score : 0.99
Everything is already good I think..	Positive	Positive, Polarity: 1	Positive, Polarity Confidence : 0.67	Positive, Probability : 1	Positive, Probability : 1	Positive, Score : 0.56
more freedom, with responsibilities. we have to move fast and darer to take risks. I think some of my other colleagues had expressed their thoughts, so I won't add much more	Negative	Negative, Polarity: -0.6	Neutral, Polarity Confidence : 0.59	Negative, Probability : 0.95	Positive, Probability : 0.501	Negative, Score : 0.81