Yottamine Launches Big Data Prediction-on-Demand in the Amazon Cloud

Scalability, Performance and Automation Allow Faster Machine Learning with Less Human Guesswork

SAN DIEGO, CA, 02/20/13—At the Predictive Analytics Innovation Summit here today, Seattle-based Yottamine Analytics, a pioneer in high performance machine learning, announced the availability of Yottamine Predictive Services (YPS) a family of cloud-based software services that enable data scientists to rapidly build highly accurate predictive models on-demand, with less trial and error, and at the lowest possible cost. The company also announced the availability of YottamineR®, a free R language programming interface for Yottamine's growing menu of machine learning services.

YPS is available exclusively to users of Amazon's AWS Simple Storage Service (S3) and Elastic Compute Cloud (EC2). These Amazon services allow Yottamine users to "rent" just the amount of data storage and computing power they need to build new predictive models from input datasets of any size, including business and scientific data, as well as Big Data from the Web and sensor networks. YPS produces robust, efficient models that can be used to score very large data sets on AWS clusters or on other systems.

Yottamine Predictive Services enable the computer to learn from known cases and then build models that can be used to make predictions about new cases. Predictive models can be used in many different ways, including detecting fraud, recognizing faces and handwriting, filtering spam, predicting human behavior, and even diagnosing illnesses. The machine learns from past events what is most likely to happen in the future.

In addition to being fast, accurate and scalable, Yottamine's machine learning services are also highly automated. The software can recommend optimal parameter values for the data scientist to use in building each model, eliminating hours of tedious trial-and-error guesswork.

"Until now, companies getting serious about machine learning had to use slow and clumsy research software or complex and expensive licensed software; they had to buy a lot of hardware to run it on; and they had to spend hours tweaking and tuning the software every time they used it." said Dr. Te-Ming (David) Huang, Yottamine Analytics Founder and CEO, adding, "YPS offers another, better choice – easy, on-demand access to powerful prediction services for pennies a minute, without all the trial and error."

YPS implements a set of highly parallel support vector machine (SVM) algorithms that are optimized for running on scalable cloud computing clusters and working with Big Data. YPS currently includes four different SVMs for solving different kinds of problems – Linear, Gaussian, Polynomial, and Nearest Neighbor.

Depending on which service is selected, pricing ranges from $10 - $50 per hour per cluster node. AWS users can try YPS for thirty days at no charge.

Data scientists can access all of Yottamine's services using the R statistical programming language with YottamineR®, a free downloadable R programming package. It enables R programmers to easily build, score and visualize new predictive models using familiar tools and to incorporate Yottamine's predictive services into existing workflows. For a demonstration of YottamineR, visit http://video.yottamine.com.

About Yottamine Analytics

Yottamine Analytics was founded in 2009 by Dr. Te-Ming (David) Huang to commercialize his original research in machine learning by offering cloud-based predictive modeling solutions that are faster, more scalable, easier to use, and more affordable than other available solutions. Yottamine Analytics now offers a growing family of high performance machine learning services, programming interfaces, and user interface tools. For more information, please visit http://yottamine.com.

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