

AI WITHIN REACH: AUTOML PLATFORMS FOR THE ENTERPRISE

MARKET LANDSCAPE REPORT

■ AUTHOR: Analyst, Andrew Brust



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GIGAOM



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INTRODUCTION

Artificial intelligence (AI) and machine learning (ML) are more than just the technologies du jour; they are the very essence around which most business technology leaders feel they must orient their agendas. However, much of today's AI/ML technology relies on a rarefied data science skill set that is in acutely short supply making it difficult to scale.

Many feel the solution revolves around automated machine learning (AutoML), essentially the application of AI, to solve AI. Yes, we could continue to have humans engage in today's intuition, trial and error-laden AI processes, experimenting, and testing in a slow, bespoke approach, or we could use machine intelligence to do that for us in an efficient, automated fashion, allowing data scientists to focus on higher-value tasks. This is exactly the aim of automated ML.

RANGE OF OFFERINGS

Various AI/ML vendors, including the public cloud providers, are now offering AutoML platforms or AutoML features in their broader data science platforms, resulting in a critical mass of products, platforms, and solutions. As a consequence, this report explains how AutoML technology works and compares the products and platforms available.

In this GigaOm market landscape report, Analyst Andrew Brust, who has studied and followed AI and data mining since the 1980s, reports on these exciting AutoML offerings. He will explain their relevance to data scientists, software developers, and even business users. Whether readers prefer to work with on-premises products or those born in the cloud, this GigaOm report will arm Enterprise decision makers with a robust understanding of AutoML.

EXPLANATION AND ENUMERATION

In this report, Brust explains Auto ML concepts, like algorithm selection, hyperparameter optimization, and full-on model generation from a simple dataset. He also looks at major players in the space, the range of offerings in the market now, and offers a sense of what is to come. This report will be a must-read, go-to resource for technology decision makers across industries, from startups to SMBs to Enterprise organizations.

Brust's approach of distilling, simplifying, and demystifying technology and its vocabulary helps readers get past the noise and intimidation so they can get to a state of readiness, make their purchasing decisions, and get their initiatives in play with excellent prognosis for success.

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REPORT TOPICS

- Automated machine learning (AutoML) offerings that exist in the market, including hyperparameter optimization, algorithm selection, and the full-on generation of a model from a simple dataset
- The relevance of AutoML to data scientists, software developers, and business users
- AutoML offerings available on-prem and in-cloud
- Code-based vs. UI-based (business user-oriented) AutoML solutions

ARE YOU PREPARED?

- Are you embarking on a digital transformation initiative, and feel AI is an indispensable component of the effort?
- Does your organization have an interest in AI, but lacks the data science skill sets in-house necessary to launch an initiative?
- Have you launched a successful data warehouse, data lake, and/or data governance initiative and feel ready to build predictive models on your data sets as a next step?



ANALYST, ANDREW BRUST

Andrew has held developer, CTO, analyst, research director and market strategist positions at organizations ranging from the City of New York and Cap Gemini to GigaOm and Datameer. He has worked with small, medium and Fortune 1000 clients in numerous industries and with software companies ranging from small ISVs to large clients like Microsoft. Andrew's resulting understanding of technology, and the way customers use it, makes his market and product analyses relevant, credible and empathetic.

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Andrew has tracked the Big Data and Analytics industry since its inception, as GigaOm's Research Director and ZDNet's lead blogger for Big Data and Analytics. Andrew co-chairs Visual Studio Live!, one of the nation's longest running developer conferences. As a longtime technical author and speaker in the database field, Andrew understands today's market in the context of its longtime Enterprise underpinnings.

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