Cloud-Based Data Science & Machine Learning Platforms

Build, deploy, and manage breakthrough machine learning capabilities with flexibility and limitless scale.

2025 CONSTELLATION SHORTLIST

The Constellation ShortList™ presents vendors in different categories of the market relevant to early adopters. In addition, products included in this document meet the threshold criteria for this category as determined by Constellation Research. This Constellation ShortList of vendors for a market category is compiled through conversations with early adopter clients, independent analysis and briefings with vendors and partners.

ABOUT THIS SHORTLIST

For organizations with data science teams, these cloud options offer all the tools, notebooks, diverse data science libraries, and collaborative monitoring tools they'll need to build, deploy, and manage custom machine learning (ML) models. What's more, these platforms are steadily introducing no-code/low-code and automated capabilities that enable data-savvy team members to build and deploy ML models without deep data science expertise. This ShortList focuses on cloud-based machine learning platforms for building, deploying, and managing models though both traditional and automated methods.

LIKE WHAT YOU SEE?

Consider partnering with Constellation Research on your go-to-market-strategy. Email **ShortList@ContellationR.com** for more info.

To learn more about Constellation Research Shortlists visit: **www.constellationr.com/ShortList**

11 SOLUTIONS TO KNOW

Constellation evaluates more than a dozen solutions categorized in this market. This Constellation ShortList is determined by client inquiries, partner conversations, customer references, vendor selection projects, market share, and internal research.

- **ALIBABA CLOUD MACHINE LEARNING PLATFORM FOR AI**
- **ALTERYX**
- **AMAZON SAGEMAKER**
- **C3 AI**
- **DATABRICKS**
- **DATAROBOT AI PLATFORM**
- **GOOGLE CLOUD VERTEX AI**
- **IBM WATSON STUDIO ON CLOUDPAK FOR DATA**
- **MATHWORKS MATLAB**
- **RAPIDMINER**
- **SAS VISUAL DATA SCIENCE DECISIONING**

THRESHOLD CRITERIA

Constellation considers the following criteria for these solutions:

- Extensive tooling, notebooks, data science library options, and monitoring and management features geared to help data scientists build, deploy, and maintain models
- Low-code/no-code and automation options that enable data-savvy users to build models without coding or deep data science expertise
- Taps massive public cloud compute/storage/network capacity and can satisfy country-specific data-residency requirements
- Option to support more than Data scientist personas, thereby supporting democratization of data science expertise to business users
- Governance, risk management and security features as needed for citizen data scientists to work with ease
- Offers functions that will help produce business value out of experimentations quickly
- Collaboration options between business users, citizen data scientist and DS/ML experts to share, modify and deploy the models quickly
- Data access, data wrangling capabilities to create models

BUSINESS THEMES

Data to Decisions

Technology Optimization

ABOUT CONSTELLATION RESEARCH

As an award-winning Silicon Valley-based strategic advisory and futurist analyst firm, Constellation Research serves leaders and organizations navigating the challenges of digital strategy, business-model disruption and digital transformation. Constellation works closely with solution providers, partners, C-suite executives, board of directors, and its Constellation Executive Network of buy-side leaders to lead the way in research coverage and advise clients how to achieve valuable business results.

FREQUENCY OF EVALUATION

Each Constellation ShortList is updated at least once per year. Updates may occur after six months if deemed necessary.

EVALUATION SERVICES

Constellation clients can work with the analyst and the research team to conduct a more thorough discussion of this ShortList. Constellation can also provide guidance in vendor selection and contract negotiation.

Andy Thurai
VP & Principal Analyst

Andy Thurai is an accomplished IT executive, strategist, advisor, enterprise architect and evangelist with more than 25 years of experience in executive, technical, and architectural leadership positions at companies such as IBM, Intel, BMC, Nortel, and Oracle. Andy has written more than 100 articles on emerging technology topics for publications such as Forbes, The New Stack, AI World, VentureBeat, DevOps.com, GigaOm and Wired.