AI/ML Offerings

Spending on machine learning is estimated to reach $57.6 billion by 2021, a compound annual growth rate (CAGR) of 50.1%. However, reports show that up to 88% of corporate AI initiatives are struggling to move beyond test stages and the rest feel they need to reduce their time-to-market.

We interviewed data science leaders at F50 companies to understand the most difficult parts of their roles and learnt that the three major hurdles for successful AI projects are Data, Infrastructure and Operations. Data scientists today spend more than 75% of their time on these operational challenges, therefore reducing the aggregate return on investment to under 25% of intended throughput.

About Predera

Predera is a machine learning operations company. Since our inception, we have been on a mission to simplify big data and machine learning for everyone. We have successfully built and operationalized big data and machine learning systems for many of the biggest firms in Healthcare, Finance and Retail. Predera combines frameworks, prebuilt components, as well as custom development expertise to help organizations decrease risk in AI investments while accelerating time-to-market.

Service Offering

Today’s machine learning infrastructure is complex, with various technologies and tools along the entire machine learning life cycle. We work as strategic partners with data science teams and provide offerings all across the machine learning life cycle. Our approach to ML operations is all encompassing and comprehensive, delivering most flexibility and value to teams at any level of AI adoption maturity.
We focus on operational challenges so your data science teams can excel at business and algorithms.

- **Data Engineering (DataOps)**
- **ML Development and Operations (MLDev & MLOps)**
- **Infrastructure Operations (DevOps)**

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Predera Benefits

Predera delivers the operations capabilities, best practices and tools to automate and productize machine learning algorithms. Enable your engineers and data scientists to collaborate in the most efficient way to build, deploy, monitor, manage, and govern machine learning models in production.

With Predera MLOps service, you can

- Standardize machine learning process
- Reduce friction between teams and enhance collaboration
- Reduce the time and difficulty to push models into production
- Improve model tracking, versioning, monitoring and management
- Shortest path to gain ROI from AI by automating ML lifecycle
- Mitigate risk with strong governance tools and best practices
- Easily deploy machine learning models build using any ML platform in a cost effective and scalable way on any cloud or on-premise
- Train and Build machine learning models at scale using hardware accelerators on any cloud or on-premise
- Automate monitoring of ML models in production using ML specific metrics such as data drift, anomalies, human-in-the-loop along with infrastructure monitoring and metrics.
- Achieve regulatory compliance with monitoring for bias and model explainability
- Enforce governance for machine learning projects with audit capabilities
- Use various release strategies for fast and safe rollout of changes to production

Key Benefits

- Automated Infrastructure provisioning for fast kickstart on projects
- Reduction in costs by at least 40% compared to turnkey ML solutions provided by Public Clouds
- Fully automated and reproducible ML lifecycle workflows
- Avoid lock-in with cloud providers and ML platforms. Migrate across clouds or use hybrid approach for further cost reduction
- Integration with data sources and end-user applications
Technology Stack / Partners

Tools

- IDE - Jupyter / Zeppelin Notebooks
- ML Frameworks (Tensorflow, Pytorch, XGBoost, etc)
- Data Processing - Spark, Flink, Kafka, etc
- Data Stores - S3, HDFS, Hive, Cassandra, Snowflake, SQL, etc
- Reporting - Tableau, PowerBI, etc
- ETL Tools - NiFi, Informatica, etc
- Workflow Tools - Airflow, Argo, Kubeflow Pipelines, etc
- CI / CD Tools - Jenkins, Spinnaker, Tekton, Terraform, etc
- Repositories - Artifactory, Nexus, MLFlow, etc
- Inferencing - Docker/Kubernetes, TF Serving, GraphPipe, etc

Partners

- Databricks
- Cloudera
- Streamsets
- Azure
- AWS
- GCP

Engagement Model

We follow a 1-1-3 model

- 1-hour free consultation to learn about your data science pain-points
- 1-day workshop to document your data science process
- 3-week to get to initial results and cost savings