DataRobot

Enabling the AI-Driven Enterprise

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Agenda

- DataRobot: Overview
- Specialities, Acquisitions & Collaborations
- AI Models Creation

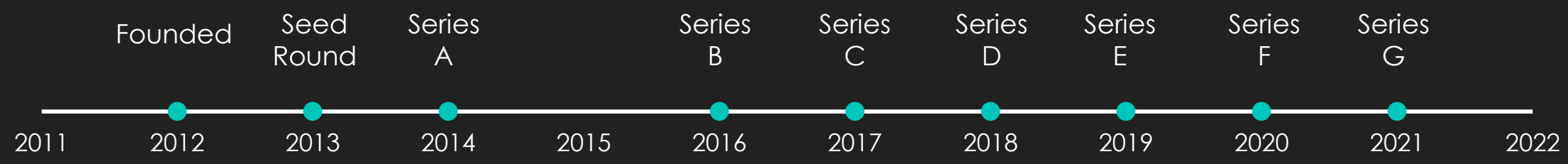
DataRobot: Overview

DataRobot: Overview

- DataRobot is the leading Augmented Intelligence platform, delivering trusted AI technology and ROI enablement.

  > "Augmented intelligence is a design pattern for a human-centered partnership model of people and artificial intelligence (AI) working together to enhance cognitive performance, including learning, decision making and new experiences." – Gartner

- In 2013, DataRobot invented automated machine learning — and an entirely new category of software as a result.
- DataRobot has raised a total of $1B in funding over 12 rounds from 35 investors.



DataRobot: Overview

- Headquarters: Boston, Massachusetts
- Company Size: 1,001 – 5000 (Close to 1,500 on LinkedIn)

Some of the Industries enabled

- Banking
- Financial Markets
- Fintech
- Public Sector
- HealthCare
- Insurance
- Consumer Packaged Goods
- Manufacturing
- Oil & Gas
- Retail
- Telecom
- Sports

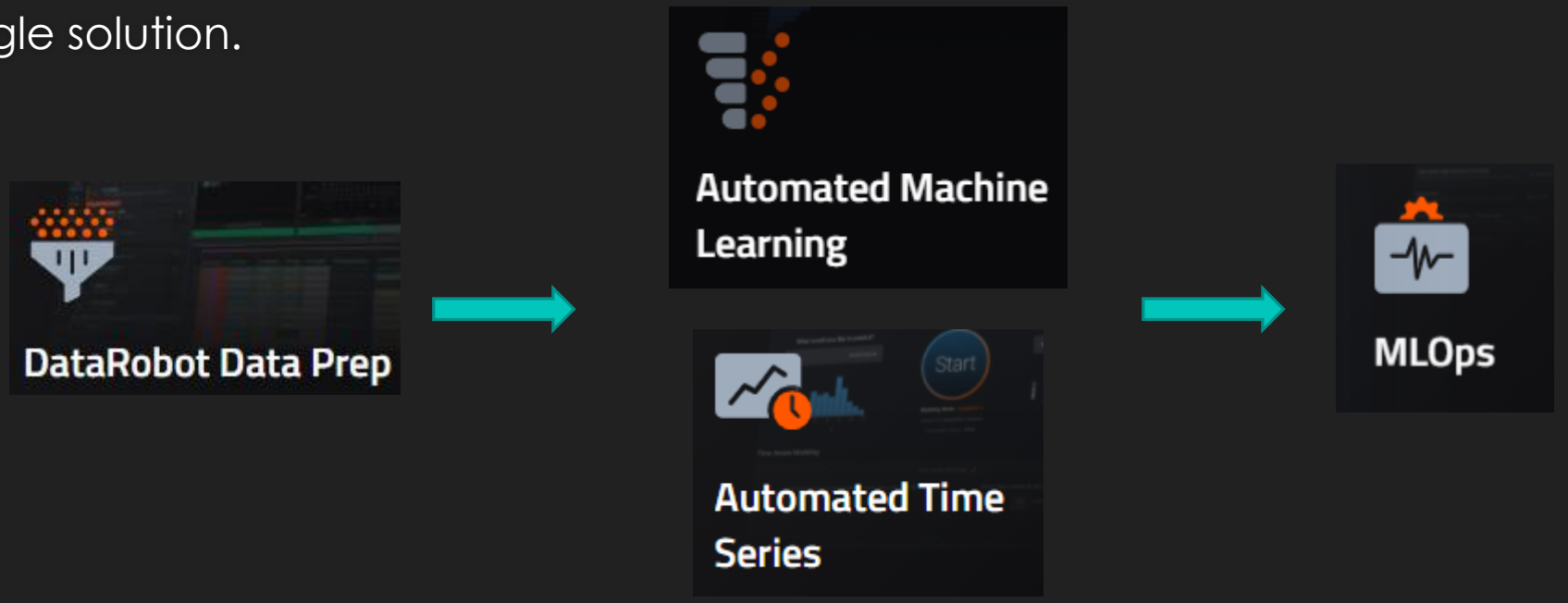
Specialities, Acquisitions & Collaborations

Specialities

DataRobot's Enterprise AI platform allows customers to

- prepare their data,
- create and validate machine learning models - including time series models (Automated) ,
- and deploy and monitor those models

in a single solution.



Acquisitions

Date	Company	Speciality
23-May-17	**Nutonian**	**Nutonian's** A.I.-powered modeling engine, Eureqa, **automatically analyzes structured data** to build the most accurate and actionable models.
10-Jul-18	**Nexosis**	**Nexosis** is a software company that provides a **machine learning API** for developers.
26-Feb-19	**Cursor**	**Cursor** is a **collaborative analytics platform** that lets users easily author, organize and search code from around their organization.
20-Jun-19	**ParallelM**	**ParallelM automates the deployment and ongoing management of Machine Learning services** in production to unlock the business value of AI.
13-Dec-19	**Paxata**	**Paxata** is **an adaptive data preparation platform** built for the analyst to turn raw data into ready data for analytics.
11-May-21	**Zepl**	**Zepl** is an enterprise, cloud data science and analytics platform that allows **rapid building and analyzing of models and insights**.
26-Jul-21	**Algorithmia**	**Algorithmia** is a machine learning model deployment and management solution that **automates the MLOps** for an organization.

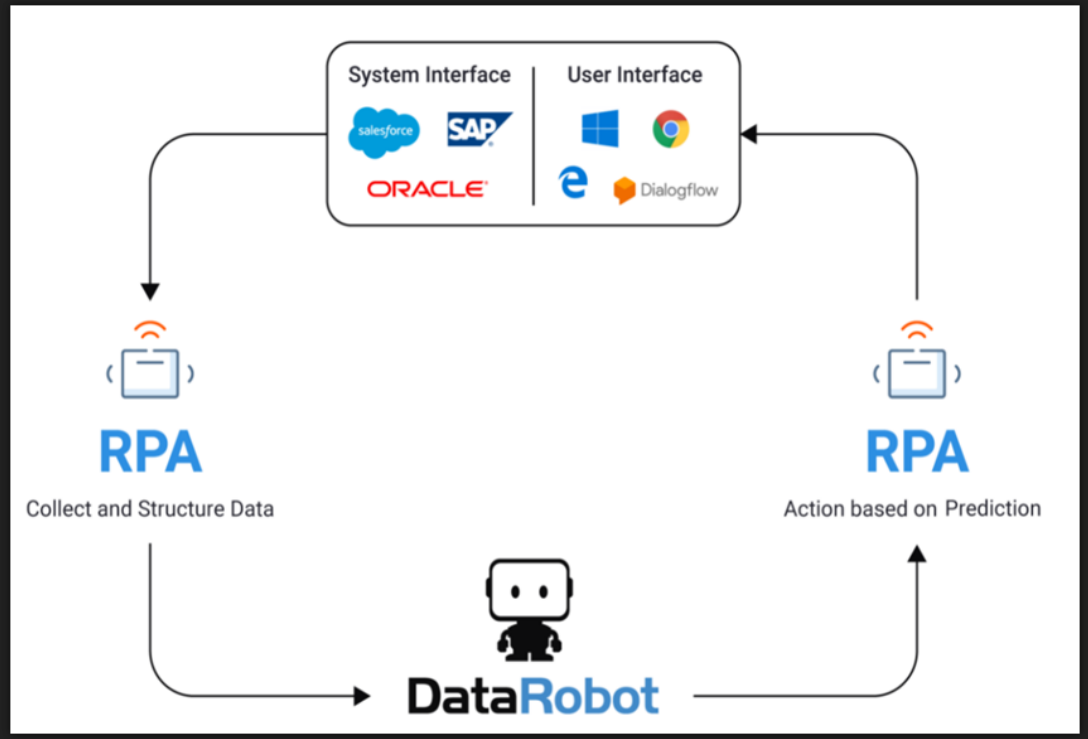
Collaborations

AI Driven Process Automation

Starting 2018 **DataRobot** collaborated with

- **UiPath** a leading Enterprise Robotic Process Automation (RPA) software company and
- **Automation Anywhere** a global leader in RPA for businesses

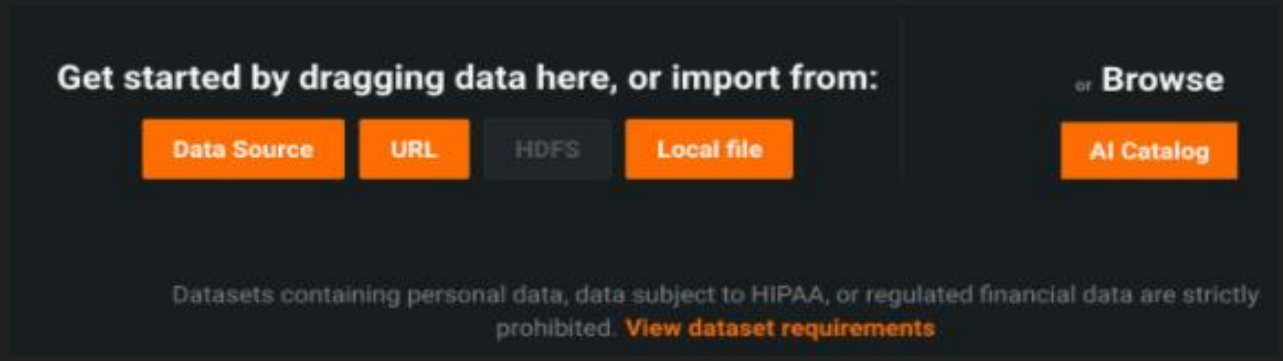
to enable **AI Driven Process Automation.**

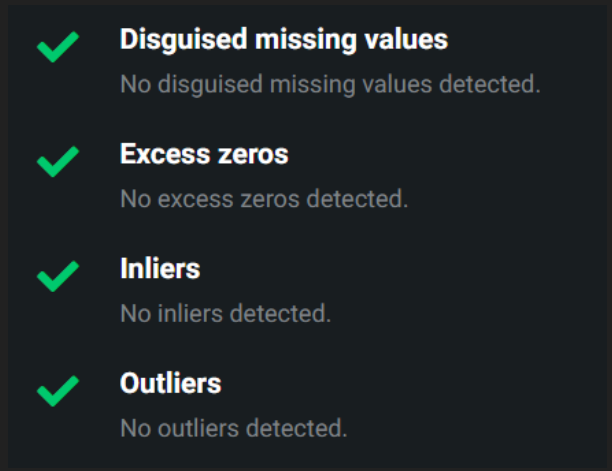


AI Models Creation

Data Prep

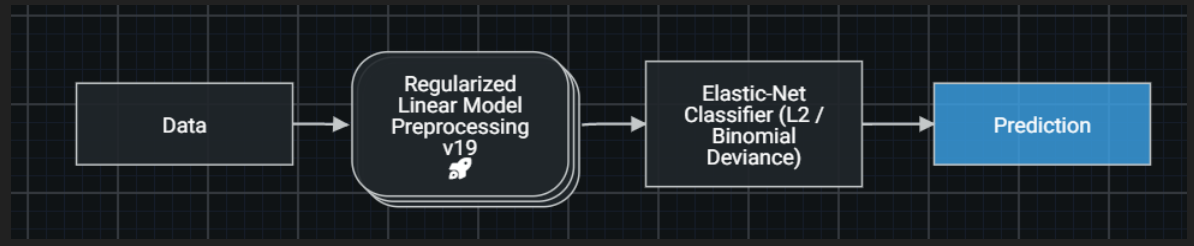
- A lot of options for importing data
  - Local file, hdfs, url and others
  - Restricts PII info in data
- Automates the Data exploration phase
  - Builds appropriate charts based on field format
  - Current packages in Python don't scale with large data
- Automates the Data preprocessing
  - Converts the categorical data to Numerical
  - Performs transformations as required

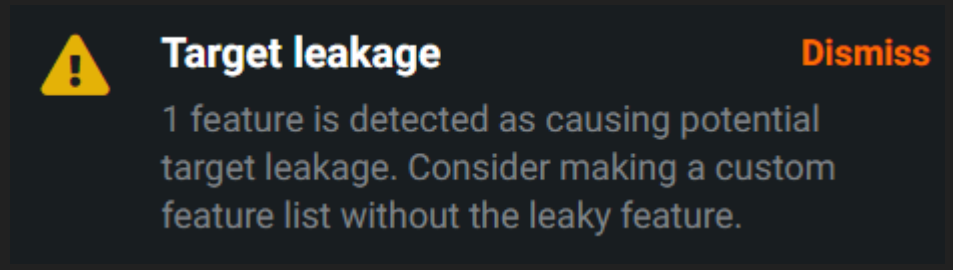


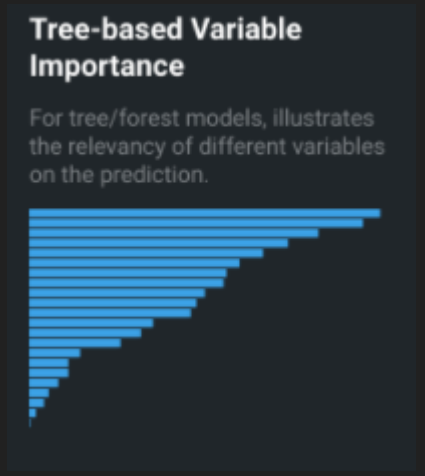


Model Building

- Automates the model building process
  - Based on the target variable identifies the problem type
  - Based on the problem type builds a number of models in parallel
  - Even checks for leakage issue
- Provides a variety of model insights capabilities like
  - Tree based variable importance
  - Word Cloud
- Generates a flow diagram flow for the entire process







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THANK
YOU

That's all Folks!