Maximize Your Investment in AutoML Software with Decision Intelligence

Across industries, organizations are investing in AutoML software like DataRobot, H2O.ai, Dataiku and others to automate their machine learning model development and deployment pipelines. Business applications driven by AI and ML models support forward-looking insights and recommendations. Unlike traditional BI technologies, AI and ML deal with probable outcomes – what is most likely or unlikely to happen. For example, ML can predict additional products to sell to existing customers, create better efficiencies in supply chain and operations, improve processing times between lenders and consumers with smarter underwriting decisions, and be leveraged to predict customer churn.

According to Forrester Research, 61% of data and analytics groups had already implemented or expanded their investments in AutoML solutions. Another 25% planned to implement these solutions by 2023. Despite the investment, a report from Dimensional Research indicated that only 4% of companies have succeeded in deploying ML models to a production environment.

How can businesses today fully realize the potential of AutoML to support everyday decisions, especially those that need to be made with a moment's notice? Investing in AutoML in and of itself will not improve your business. An automated data science practice is still flying blind if a business user's results aren't consumable or actionable. Decision intelligence can improve the ROI on your AutoML investment by blending prescriptive and predictive analytics in a way any decision-maker can understand.

BI Dashboards Undermine the AI and AutoML Investment

Today, many investments in enterprise machine learning fall short because of the limitations of the analytics consumption layer itself. Business users often work within business intelligence (BI) tools such as Tableau, Microsoft PowerBI and Excel PivotTables to make decisions. These BI tools help analysts view historical data in the form of charts and graphs.

Predictive models often are too sophisticated for static BI dashboards, and the value of these models gets lost in translation. Business users frequently are frustrated with current BI tooling and make decisions based on instinct and experience rather than actual data. According to Gartner, the majority of companies base most of their decisions on gut feel.

When that's the case, almost every AutoML investment in the world will fall short of delivering its promised ROI. While these tools can unlock significant efficiencies for advanced data science users, their value has been far from realized for business users.

Decision Intelligence Unlocks the Value of AI and AutoML

Decision intelligence solutions like Diwo can ingest predictive models directly from AutoML solutions such as DataRobot, and translate these inputs into actionable, context-driven recommendations for business users. Instead of attempting to gain insights from multiple dashboards, a decision-maker can ask direct questions of a DI system such as, "How would a price reduction in SKU X affect retail sales of SKU Y?" Business users get real answers to their questions because the system queries multiple ML model inputs. The user sees data-driven context for the recommendation, not just the answer itself.

Your Data Fabric, AI and ML models Diwo's Decision Intelligence Platform Business Impact

Let's look at a before/after scenario for DI and AutoML. Previously, a predictive model built in an AutoML platform may give a decision-maker a yes or no answer for a simple problem such as, "Will hot weather impact sales of SKU X in the Northeastern U.S.?" However, the onus is on the business user to consult multiple dashboards to figure out what to do with that information. In contrast, a DI system could interrogate this predictive model and combine it with historical data on retail sales to show the impact an increased investment in SKU X will have on overall margins.

It's still critical for a human to provide feedback to the DI system on the validity of these recommendations. Over time, the DI system learns from user feedback. This input can be used in AutoML software to retrain models, improving their accuracy.

Improve the ROI from AI Models with Diwo

Let's look at how Diwo customers improve the ROI from AI models using decision intelligence.

One of the largest supply chain management organizations in North America uses several machine learning models, including dedicated models for the number of:

- Packages sent in a given timeframe
- Packages contained in each trailer
- Humans required to successfully deliver these packages on time

In this scenario, the supply chain manager uses DI to make decisions based on these models' inputs from delivery videos, images, and data from package scans. Diwo helps decision-makers determine how efficient their current processes are and where to make improvements. Diwo tells them what to do and why and how it is prescriptive.

Another client, a retailer, uses one predictive model to forecast sales. Another "next-best-offer" model is used to upsell customers buying phones on accessories and related gear. The Diwo platform unites these model inputs for C-level decision-makers to interpret for the first time. This provides clarity for making better decisions on upsells, cross-sells, forecasting, inventory and more.

Suppose your organization has AI models in production but is struggling to achieve ROI. In that case, Diwo's decision intelligence can help bring the power of these models to day-to-day decision-makers. By incorporating decision intelligence into any AI or AutoML project, enterprise leaders can harness the full potential of ML and support business users and their daily decisions in their workflow.

Benefits

Delivering on AI projects may seem like a daunting task, but solutions like Diwo's Decision Intelligence platform provide the tools, insights and recommendations to help your team deliver AI that will help transform your business. Other benefits of using decision intelligence with your AutoML tool include:

- Unlock the power of your data fabric by contextualizing insights and making them immediately actionable
- Eliminate manaual analytical tasks and accelerate delivery of recommendations to decision-makers at every level of the business
- Make better decisions, faster with data rather than rely solely on gut instinct

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Ready to Get Started?

Visit diwo.ai to learn how Diwo's Decision Intelligence platform can help you maximize your investment in AutoML software.

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