



Automated Machine Learning

Automated Machine Learning (AutoML) made repeatable and mission-ready, rapidly

BUSINESS NEED

Federal agencies need to enhance their decision making by analyzing data to uncover patterns and predict trends. Those data sets are large and complex, requiring specialized skills from expensive and over-committed resources. Automated Machine Learning (AutoML) helps democratize Artificial Intelligence (AI), empower non-experts to build models quickly, accelerate insights from massive data, and make scalable data-driven decisions. Agencies need help treating data as a strategic asset by standardizing analytical workflows, removing barriers to AI/ML adoption, and accelerating the transition from exploratory analysis to mission-ready intelligence.

OUR SOLUTION: ACCESSIBLE AUTOMATED MACHINE LEARNING

Our ready-to-use solution provides a set of tools for automatically evaluating and providing insight on a data set and can visualize and automatically select and tune the best available AI/ML algorithm.

InDev's AutoML custom solution starts by carefully checking the data identified to make sure it's accurate and well organized. Then, the data is automatically cleaned, useful data features are created, and the dataset is analyzed. Next, multiple types of models are tested, and their settings are fine-tuned to see which ones work best. Their results are compared using standard performance measures and the models are ranked based on how well they perform. Finally, clear summaries are provided that explain how each model works, which factors matter most, and how reliable the results are, so decisions can be made with confidence and transparency.



**Compressed Timeline
to Mission Insight**



Faster AI & ML Maturity

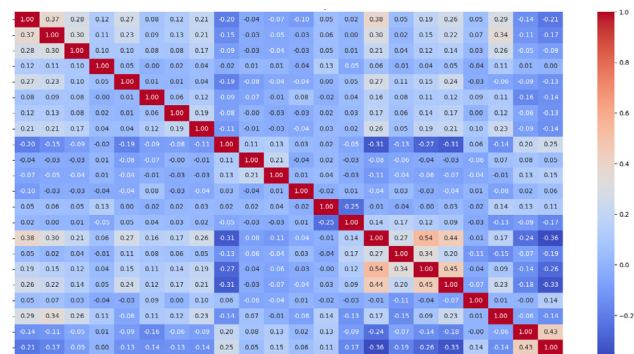


Improved Decision Support

INDEV'S AUTOML SOLUTION

Overview	
Dataset statistics	Variable types
Number of variables: 22	Numeric: 22
Number of observations: 47100	
Missing cells: 0	
Missing cells (%): 0.0%	
Total size in memory: 113.3 MB	
Average record size in memory: 176.0 B	

Example Output: Data Insights



Example Output: Correlation Heatmap

AUTOML USE CASES

Federal agencies can use Automated Machine Learning (AutoML) to speed up AI adoption, overcome talent shortages, and handle massive data for better, faster decisions. InDev's AutoML solution is ready to be deployed to help agencies in gain insight and act on data immediately. Some use cases include:

- Data Exploration and Feature Analysis: Reveals high-value features fast, reducing analysis effort and speeding insight
- Outlier and Anomaly Detection: Delivers fast, automated anomaly detection so mission risks surface sooner
- AutoML for Model Development: Automates model selection and optimization to accelerate analytics delivery

Want to learn how InDev can support your Automation Transformation?
Reach out to ilab@indeev.com to begin your journey.