MYDATAMODELS
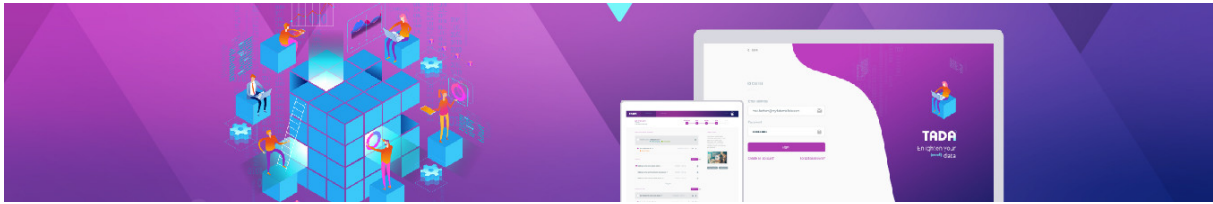
The Automated Machine Learning Company

TADA **Product Sheet**

TADA is a software that builds and runs predictive models. Easy to use, TADA does not require coding nor machine learning skills. Inspired by evolutionary algorithms, our unique engine is particularly suited for numerical datasets with a very small number of samples, commonly known as Small Data.

TADA is designed for:
- Domain Experts: to give data meaning and make predictions without coding and machine learning skills.
- Data Experts: to build predictive models and minimize repetitive tasks and increase productivity.

Ease of use
- Web-based intuitive interface
- One-click generation model
- Data visualization and decision tools

Data preparation
- Import CSV files
- Preprocessing: missing values, stratified sampling, one hot encoding, time series (coming soon)
- No need to do feature engineering, manage outliers or align values range
- Tada produces better results with raw unaltered data as "noise" in a dataset can itself contain predictive meaning.

Automated variable reduction
- Ranking of most significant variables impacting target variable
- Capacity to reduce several thousands of variables down to very few
- Consideration of 50k variables is very practical from performance perspective even with modest hardware.

Modeling process
- Automatically creates training, validation and test partitions
- No need to tune hyperparameters
- Creates compact predictive models made of 3 to 7 variables max
- Generates a predictive model in a few minutes
- Runs in cloud (public/private) and desktop (PC, Mac, Linux) environments

Modeling capabilities
- Superior performance on Small Data, datasets made of few samples/rows (from tens to few hundreds)
- Algorithm can express mathematical relationships in data that other current commercial algorithms cannot (e.g. $response = \dfrac{\sqrt{x^{\sin y^z}}}{\ln \lfloor w \rfloor}$).
- Correlation of predictor variables is of no consequence to modeling process.
- Does not model on artifacts of dataset composition or statistical characteristics, models on mathematical signals in the data.

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- Data which does not contain sufficient information for a requested prediction simply results in a reduced maximum model accuracy, it does not result in excessively curve fit models that degrade when deployed against new data.
- Binary classification modeling
- Regression modeling
- Multi-class classification modeling

Model review
- Display of models' performance metrics
  - Binary classification: confusion matrix, accuracy, true positive and negative rate, MCC, F1 score
  - Regression: RMSE, MAPE, IRMSE, R2, …
  - Multiclass classification: MCC, accuracy, F1 score, Kappa
- Display of used variables in produced model
- The resulting model is not a derivative of statistical attributes of predictor variables, it is the result of a search process for a mathematical equation which explains the response variable as a mathematical function of a subset of predictor variables
- Sophisticated users can explore the mathematics of a model to derive insight or augment with domain expertise.
- Easy-to-understand model, display in analytical format (equations)
- Models produced are mathematical formulas able to be deployed easily using deployment SDKs or by implementing model logic directly in any mathematically compliant platform or language (IEEE 754).
- Very sophisticated model assessment system to exclude curve-fit solutions and identify the optimal generalized solution for prediction of new data.

Deployment
- Three options:
  - uploading your production data in CSV format in TADA,
  - calling a REST API endpoint (coming soon),
  - exporting model's code (Java or C++) into your application
- Models can be run in cloud, desktop, mobile, edge and embedded environments

Try TADA for free at https://www.mydatamodels.com/big-data-solutions-and-small-data-solutions/

Pricing

All prices are indicated for one-year license and do not include taxes. For **custom projects** please contact us for a specific pricing.

Choose your payment model:

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Public sector, Education	**Corporate, Others**	**Public sector, Education**	**Corporate, Others**
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