AiToGo.us AI Machine Learning Software

Anomaly Detection, Classification, NLP (Natural Language Process), Time Series Forecast and Unsupervised models all in one package
Auto Mode allows you to find the best ML model and deploy with sophisticated training features in one-click
Suggest which data features to keep or drop by model accuracy
Load Data, Analyze, Train, Predict, and Deployment in a pipeline
Mobile device friendly AI
Deployment with API

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You will experince the machine learning software to train the data, build the model, predict the outcomes, and deploy to production with API : Download AiToGo-API.pdf

Services And Solutions

Lead Conversion - Use machine learning technology to predict which factors have the most propensity to convert.

Churn Reduction - predict which customer is likely to cancel with machine learning classification model.

Cross Selling - predict the selling opportunity

Defaults - predict the payment defaults

Employee Attrition - prevent the employee leaving at risk.

Email Spam - predict the spam email

Customer Behavior - predict which customer is good customer

Political Tendancy - With machine learning NLP model to predict the voting intention.

Company Satisfaction - predict the customer loyalty

Dynamic Pricing - With machine learning time series forecasting model to predict the margin, cost or set the price

Insurance Costs - predict insurance cost based on health data.

Real Estate - Using time series forecasting machine learning model to predict the future ral estate price.

Identify suspicious account activity & better support anti-money laundering.

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Please select the data file to be analyzed (with .csv extension):

Choose File No file chosen

Upload the file

Hint: It might take several minutes to upload a large file

Uploaded Data Files:

sample_anomaly_imbalanced_bethm.csv
sample_anomaly_regression.csv
sample_anomaly_time_series_injury.csv
sample_classification.csv
sample_classification_iris.csv
sample_nlp_tweet.csv
sample_regression_house.csv
sample_segmentation.csv
sample_time_series_forecast.csv
shuttle.original.csv

Delete File

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Anomaly Detection - Time Series: Outliers that behave unusually in a specific time instance when compared to the other values in the time series.

Anomaly Detection examples such as:

- **Health monitoring.**
- **Fraud detection.**
- **Security detection.**
- **Identify suspicious account activity & better support anti-money laundering.**
- **Incident Prediction**

Select the file (e.g. sample_anomaly_time_series_injury.csv) , then click the Analyze button.

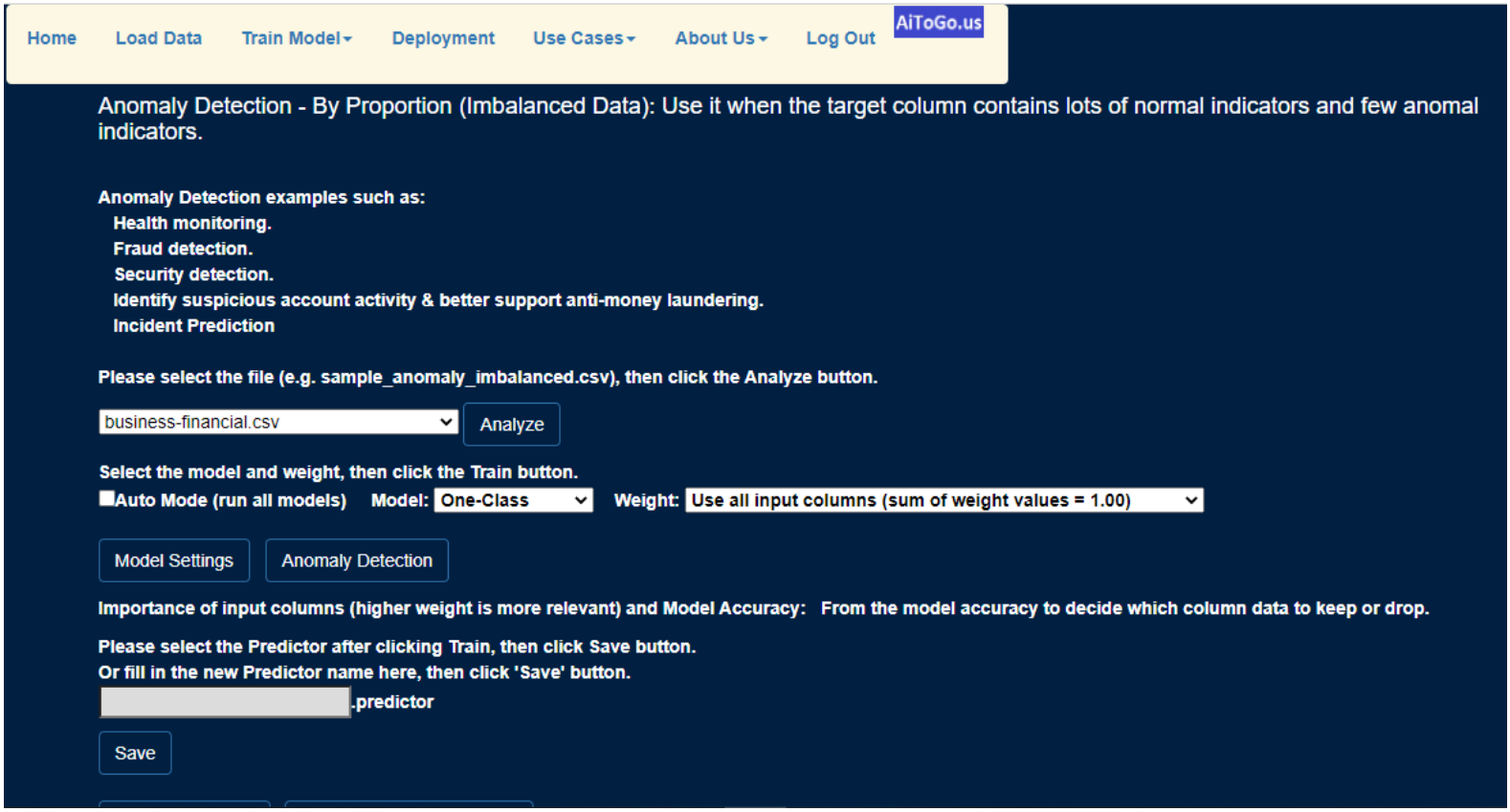
business-financial.csv Analyze

Auto Mode (run all models) **Model:** LSTM with three-sigma rule

Model Settings Anomaly Detection

Anomaly Detection Results:

Show the Graphs Show the Summary Report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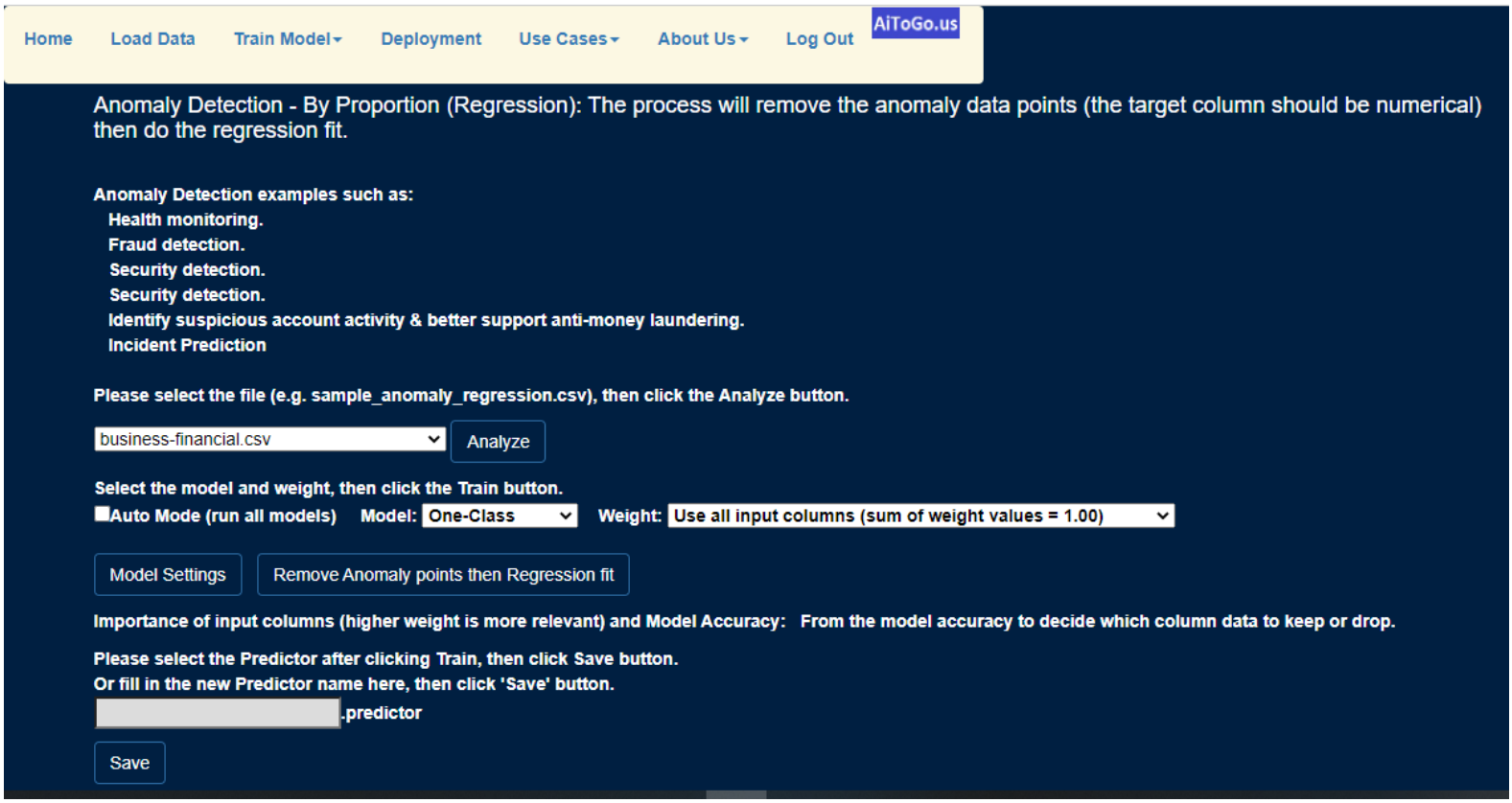
Anomaly Detection - By Proportion (Imbalanced Data): Use it when the target column contains lots of normal indicators and few anomal indicators.
Anomaly Detection examples such as:
Health monitoring.
Fraud detection.
Security detection.
Identify suspicious account activity & better support anti-money laundering.
Incident Prediction
Please select the file (e.g. sample_anomaly_imbalanced.csv), then click the Analyze button.
business-financial.csv
Analyze
Select the model and weight, then click the Train button.
Auto Mode (run all models)
Model: One-Class
Weight: Use all input columns (sum of weight values = 1.00)
Model Settings
Anomaly Detection
Importance of input columns (higher weight is more relevant) and Model Accuracy: From the model accuracy to decide which column data to keep or drop.
Please select the Predictor after clicking Train, then click Save button.
Or fill in the new Predictor name here, then click 'Save' button.
.predictor
Save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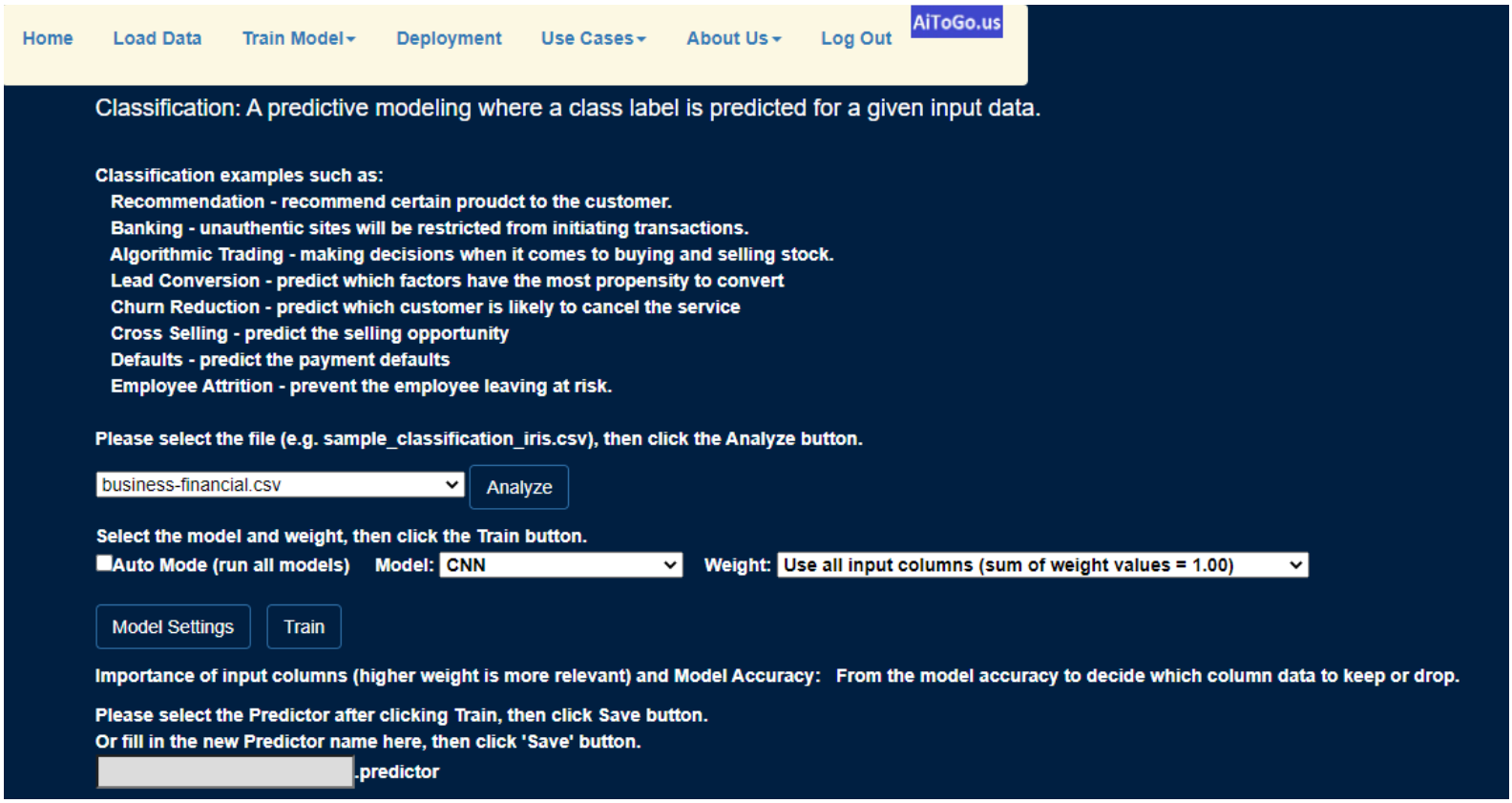
Anomaly Detection - By Proportion (Regression): The process will remove the anomaly data points (the target column should be numerical) then do the regression fit.
Anomaly Detection examples such as:
Health monitoring.
Fraud detection.
Security detection.
Security detection.
Identify suspicious account activity & better support anti-money laundering.
Incident Prediction
Please select the file (e.g. sample_anomaly_regression.csv), then click the Analyze button.
business-financial.csv
Analyze
Select the model and weight, then click the Train button.
Auto Mode (run all models)
Model: One-Class
Weight: Use all input columns (sum of weight values = 1.00)
Model Settings
Remove Anomaly points then Regression fit
Importance of input columns (higher weight is more relevant) and Model Accuracy: From the model accuracy to decide which column data to keep or drop.
Please select the Predictor after clicking Train, then click Save button.
Or fill in the new Predictor name here, then click 'Save' button.
.predictor
Save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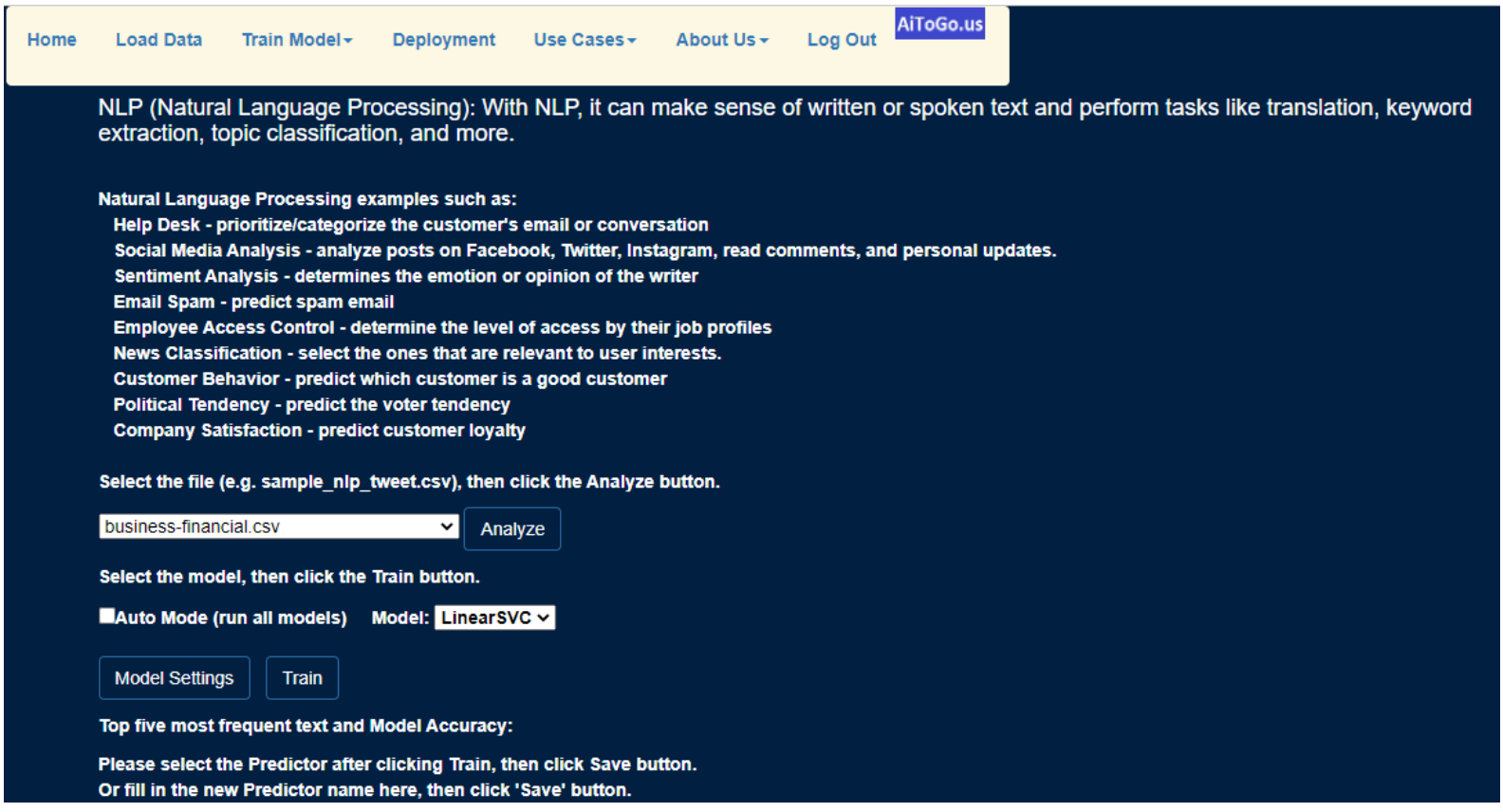
Classification: A predictive modeling where a class label is predicted for a given input data.
Classification examples such as:
Recommendation - recommend certain proudct to the customer.
Banking - unauthentic sites will be restricted from initiating transactions.
Algorithmic Trading - making decisions when it comes to buying and selling stock.
Lead Conversion - predict which factors have the most propensity to convert
Churn Reduction - predict which customer is likely to cancel the service
Cross Selling - predict the selling opportunity
Defaults - predict the payment defaults
Employee Attrition - prevent the employee leaving at risk.
Please select the file (e.g. sample_classification_iris.csv), then click the Analyze button.
business-financial.csv
Analyze
Select the model and weight, then click the Train button.
Auto Mode (run all models)
Model: CNN
Weight: Use all input columns (sum of weight values = 1.00)
Model Settings
Train
Importance of input columns (higher weight is more relevant) and Model Accuracy: From the model accuracy to decide which column data to keep or drop.
Please select the Predictor after clicking Train, then click Save button.
Or fill in the new Predictor name here, then click 'Save' button.
.predictor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NLP (Natural Language Processing): With NLP, it can make sense of written or spoken text and perform tasks like translation, keyword extraction, topic classification, and more.
Natural Language Processing examples such as:
Help Desk - prioritize/categorize the customer's email or conversation
Social Media Analysis - analyze posts on Facebook, Twitter, Instagram, read comments, and personal updates.
Sentiment Analysis - determines the emotion or opinion of the writer
Email Spam - predict spam email
Employee Access Control - determine the level of access by their job profiles
News Classification - select the ones that are relevant to user interests.
Customer Behavior - predict which customer is a good customer
Political Tendency - predict the voter tendency
Company Satisfaction - predict customer loyalty
Select the file (e.g. sample_nlp_tweet.csv), then click the Analyze button.
business-financial.csv
Analyze
Select the model, then click the Train button.
Auto Mode (run all models)
Model: LinearSVC
Model Settings
Train
Top five most frequent text and Model Accuracy:
Please select the Predictor after clicking Train, then click Save button.
Or fill in the new Predictor name here, then click 'Save' button.

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Regression: To predict continuous outcome, also investigate the relationship between features and outcome.

Regression examples such as:
- **Marketing Attribution.**
- **Ticket prices and attendance.**
- **Customer waiting (queue) time.**
- **Cost prediction.**

Please select the file (e.g. sample_regression_house.csv), then click the Analyze button.

business-financial.csv Analyze

Select the model and weight, then click the Train button.

Auto Mode (run all models) **Model:** ElasticNet **Weight:** Use all input columns (sum of weight values = 1.00)

Model Settings Train

Importance of input columns (higher weight is more relevant) and Model Accuracy: From the model accuracy to decide which column data to keep or drop.

Please select the Predictor after clicking Train, then click Save button.
Or fill in the new Predictor name here, then click 'Save' button.

.predictor

Save

Show the Graphs Show the Summary Report

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Time Series Forecast: A predictive modeling that collected data is used as input for time series forecasting where future trends.

Time Series Forecast examples such as:
- **Financial Trading - predict and execute trades at high speeds and high volume.**
- **Dynamic Pricing - explore pricing that matches supply and demand.**
- **Maximize Profit - maximize the profits by offering the price that customers are willing to pay based on their persona.**
- **Insurance Costs - predict insurance cost based on health data.**
- **Real Estate - predict the future price**

Select the file (e.g. sample_time_series_forecast.csv) , then click the Analyze button.

business-financial.csv Analyze

Auto Mode (run all models) **Model:** LSTM

Model Settings Forecast

Forecast Results:

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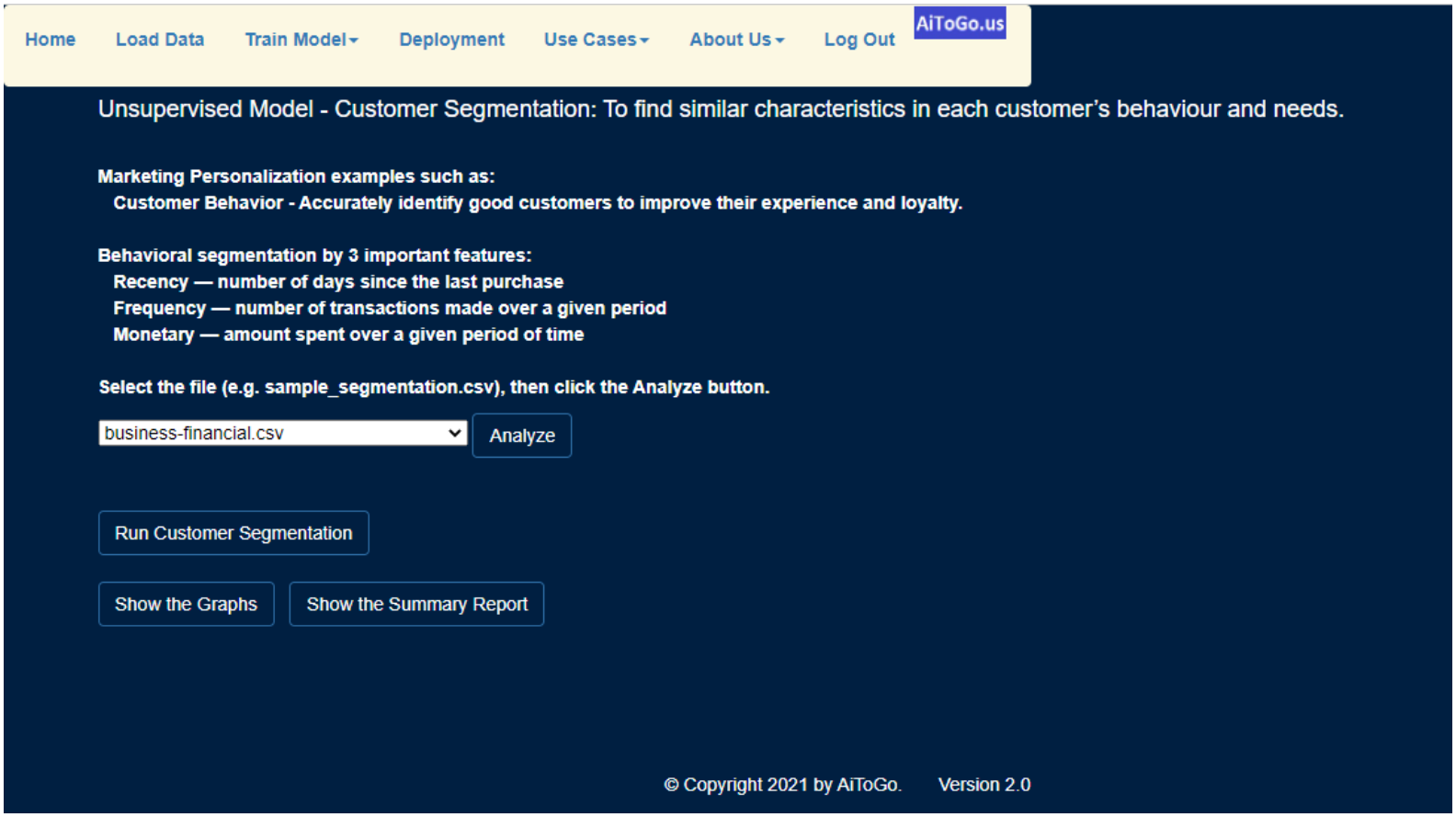
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Unsupervised Model - Customer Segmentation: To find similar characteristics in each customer's behaviour and needs.
Marketing Personalization examples such as:
Customer Behavior - Accurately identify good customers to improve their experience and loyalty.
Behavioral segmentation by 3 important features:
Recency — number of days since the last purchase
Frequency — number of transactions made over a given period
Monetary — amount spent over a given period of time
Select the file (e.g. sample_segmentation.csv), then click the Analyze button.
business-financial.csv
Analyze
Run Customer Segmentation
Show the Graphs
Show the Summary Report
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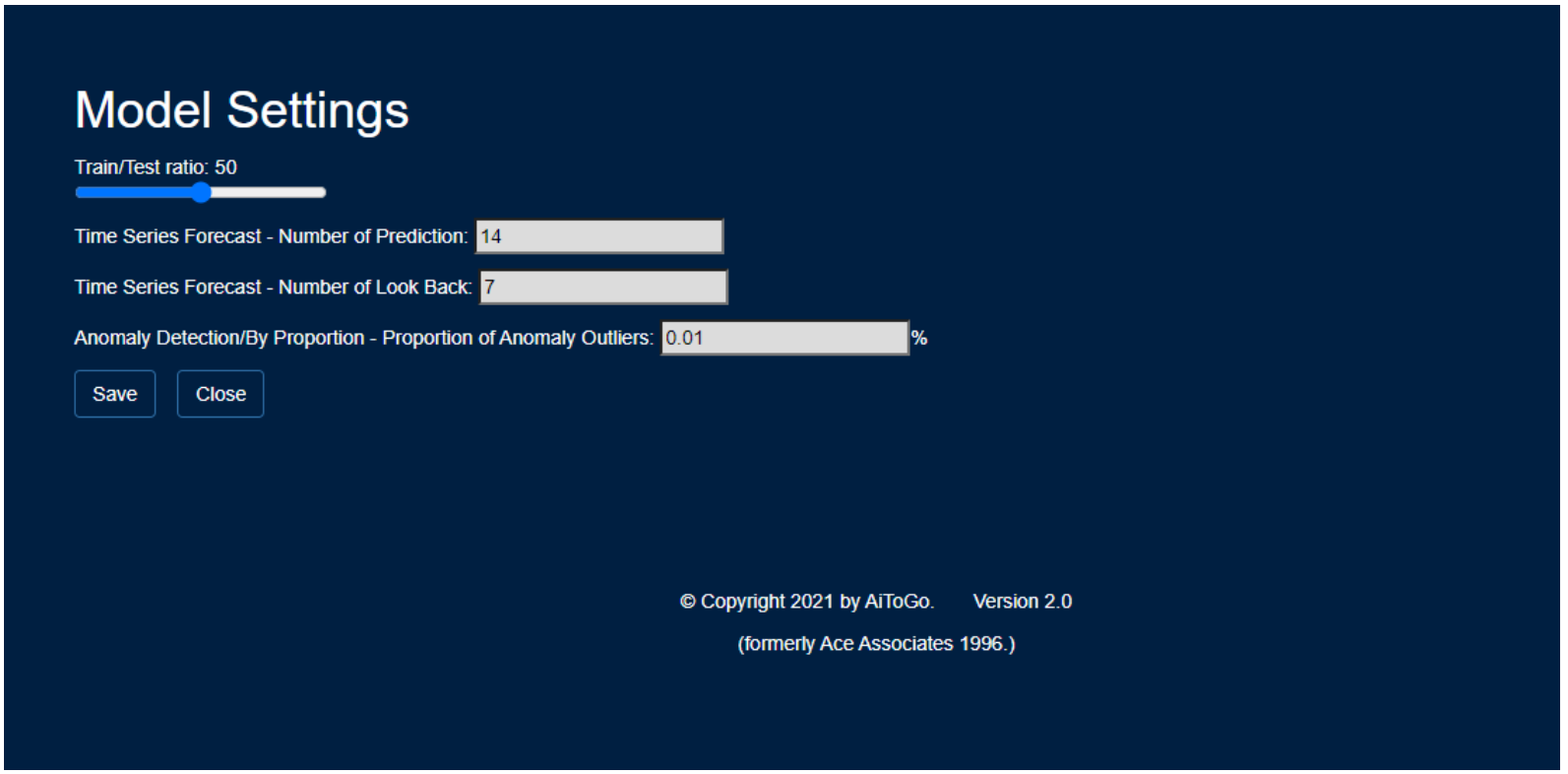
Model Settings
Train/Test ratio: 50
Time Series Forecast - Number of Prediction: 14
Time Series Forecast - Number of Look Back: 7
Anomaly Detection/By Proportion - Proportion of Anomaly Outliers: 0.01
%
Save
Close
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(formerly Ace Associates 1996.)

Defaults - predict the payment defaults
Employee Attrition - prevent the employee leaving at risk.

Please select the file (e.g. sample_classification_iris.csv), then click the Analyze button.

sample_classification_iris.csv | Analyze

First five rows of file:

	sepal_length	sepal_width	petal_length	petal_width	class
0	5.1	3.5	1.4	0.2	Iris-setosa
1	4.9	3.0	1.4	0.2	Iris-setosa
2	4.7	3.2	1.3	0.2	Iris-setosa
3	4.6	3.1	1.5	0.2	Iris-setosa
4	5.0	3.6	1.4	0.2	Iris-setosa

Select the target column (predict column): class, the rest of the columns will be used as input columns.

Select the model and weight, then click the Train button.

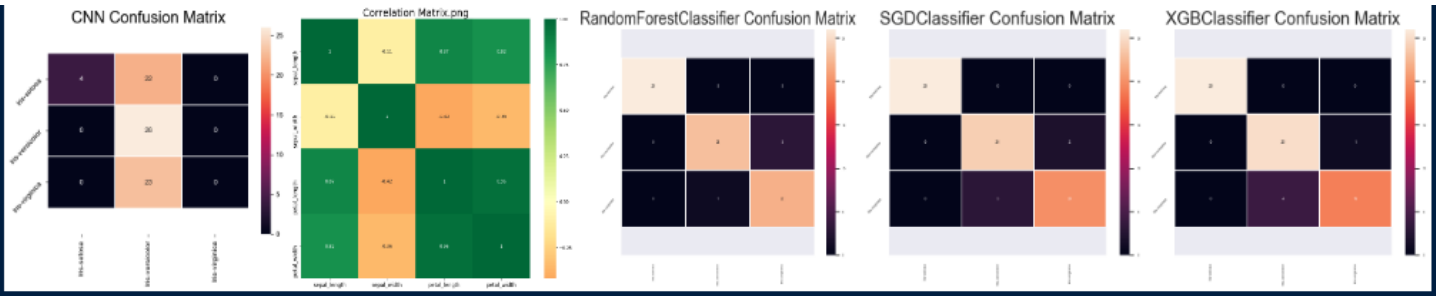
Auto Mode (run all models) **Model:** CNN **Weight:** Use all input columns (sum of weight values = 1.00)

Model Settings | Train ...Successful...

Importance of input columns (higher weight is more relevant) and Model Accuracy: From the model accuracy to decide which column data to keep or drop.

Column Name	petal_length	petal_width	sepal_length	sepal_width
Weight	0.5041	0.4826	0.0074	0.0059

Model Name	Accuracy
CNN	0.4000
RandomForestClassifier	0.9467
SGDClassifier	0.9333
XGBClassifier	0.9333

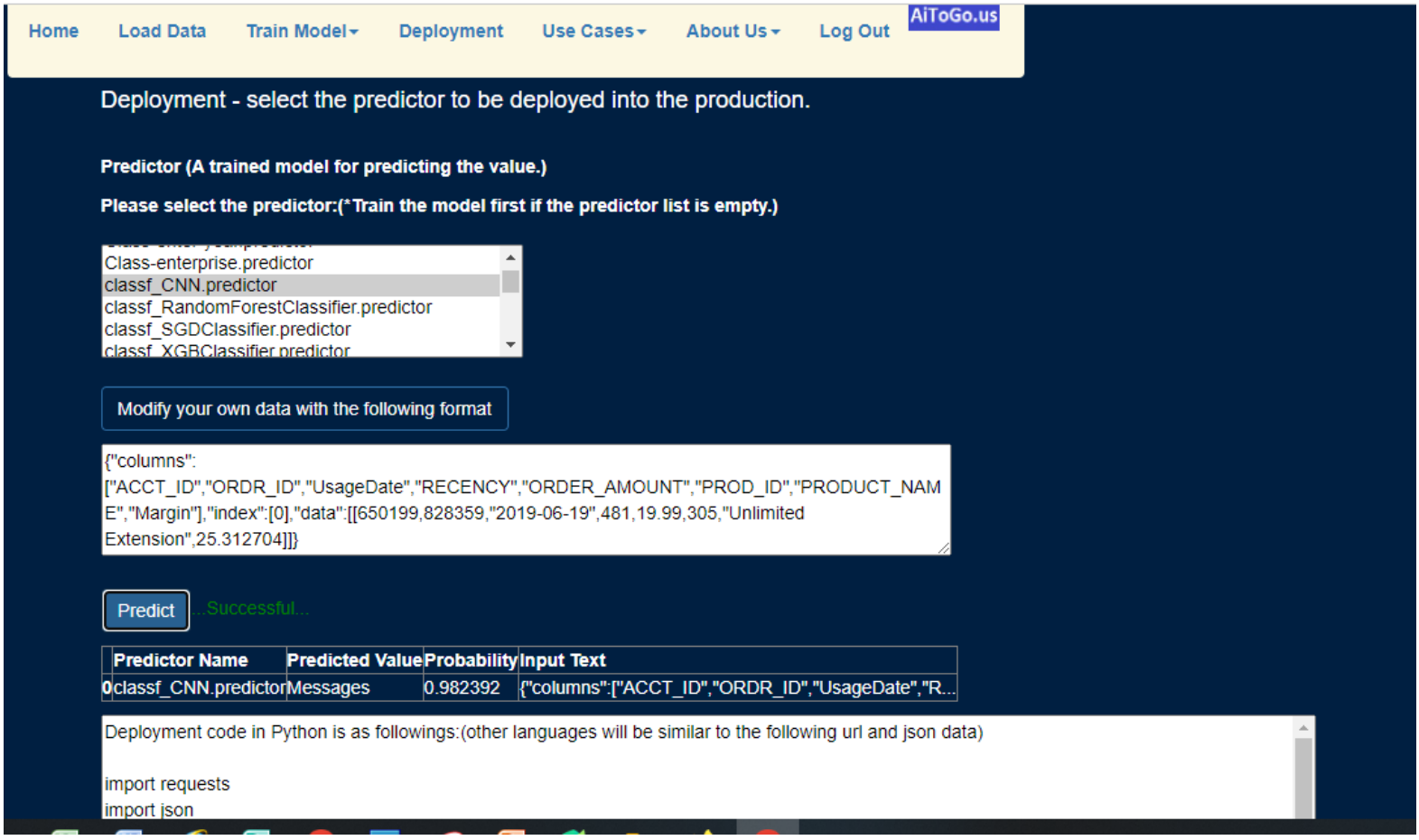


*** Summary Report - Classification ***
file name: sample_classification_iris.csv
train_test_ratio: 0.5
MAP: {'Iris-setosa': 0, 'Iris-versicolor': 1, 'Iris-virginica': 2}
inputNumberOfFeatures: 4
weight_id : 1.00
num_classes 3
CNN score: 0.4
confusion_matrix: [[4 22 0] [0 26 0] [0 23 0]] ['Iris-setosa' 'Iris-versicolor' 'Iris-virginica']
RandomForestClassifier score: 0.9466666666666667
confusion_matrix: [[26 0 0] [0 23 3] [0 1 22]] ['Iris-setosa' 'Iris-versicolor' 'Iris-virginica']
SGDClassifier score: 0.9333333333333333
confusion_matrix: [[26 0 0] [0 24 2] [0 3 20]] ['Iris-setosa' 'Iris-versicolor' 'Iris-virginica']
XGBClassifier score: 0.9333333333333333
confusion_matrix: [[26 0 0] [0 25 1] [0 4 19]] ['Iris-setosa' 'Iris-versicolor' 'Iris-virginica']

Column Name	petal_length	petal_width	sepal_length	sepal_width
Weight	0.5041	0.4826	0.0074	0.0059

Model Name	Accuracy
CNN	0.4000
RandomForestClassifier	0.9467
SGDClassifier	0.9333
XGBClassifier	0.9333

Trained Model (Predictor): classf_CNN.predictor
end time: Mon Oct 24 12:50:30 2022



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OUR MISSION - is to help your business to understanding the data, and use AI machine learning to explore your data in order to maximum your profit,minimum your cost, and improve your effectiveness.

Here are some of business cases:
Lead Conversion - predict which factors have the most propensity to convert
Churn Reduction - predict which customer is likely to cancel
Cross Selling - predict the selling opportunity
Defaults - predict the payment defaults
Employee Attrition - prevent the employee leaving at risk.
Email Spam - predict the spam email
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Company Satisfaction - predict the customer loyalty
Dynamic Pricing - predict the margin, cost or set the price
Insurance Costs - predict insurance cost based on health data.
Real Estate - predict the future price

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You will train the data, build the model, then predict the outcomes with this application or using API. Here are the documents for API which includes code example to integrate it.: Download AiToGo-API.pdf

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- Fraud Detection
- Financial Trading
- Healthcare
- Help Desk
- Marketing Attribution
- Marketing Personalization
- Recommendation
- Security
- Social Media Analysis

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