Leveraging Online Resources for Python Analytics with BigML

Janani Ravi
CO-FOUNDER, LOONYCORN

www.loonycorn.com

Overview

BigML is a powerful online platform that democratizes ML

Drag-and-drop data preparation and cleaning

Visualizations for exploratory data analysis

Large number of pre-built algorithms

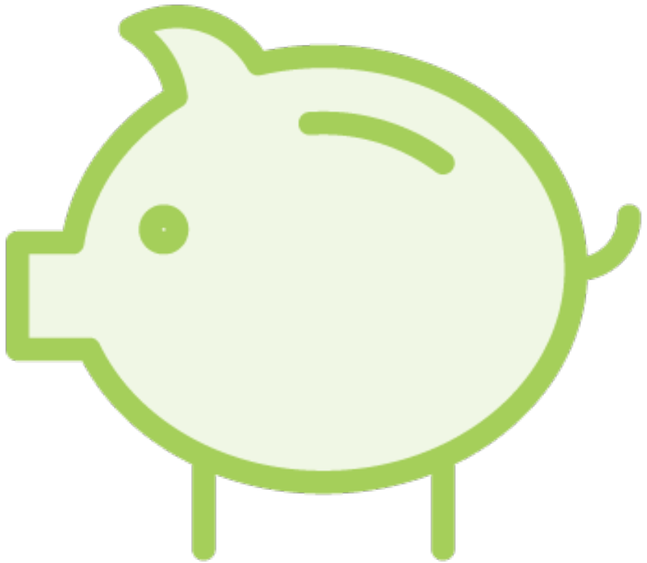
Supervised and unsupervised learning

Powerful visualizations including partial dependence plots

BigML

Online platform that makes it easy to build and use machine learning models.

BigML Features



Ready-to-use ML algorithms

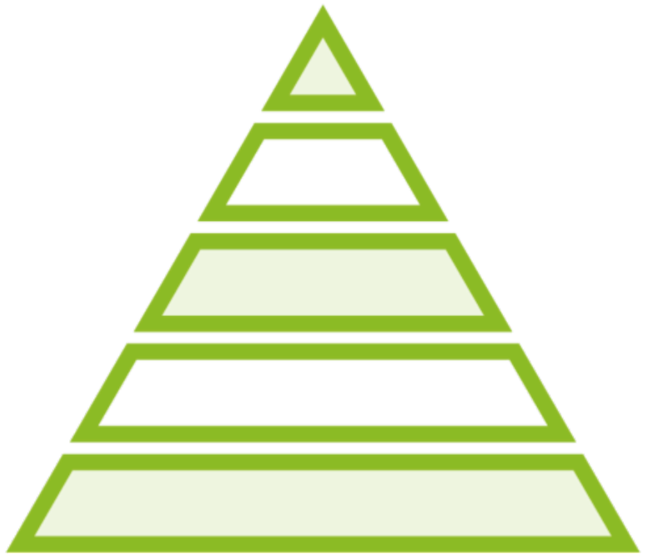
Collaboration

Automation

Export and deployment

Visualization

BigML Algorithms



Vast array of algorithms

Supervised learning

Unsupervised learning

Time series analysis

Interpreting Model Results

Powerful visualizations

- Partial dependence plots
- Prediction explanations
- Field importances

Partial Dependence Plot

Visualizations how the output (prediction) changes as values of a specific set of features change. Need large number of predictions to be computed and plotted.

Collaboration

Team and project management capabilities

Organization as entity with shared workspace

Projects as permissioned containers for resources

Automation

OptiML: Automated hyperparameter tuning

WhizzML: DSL (Domain-specific language) for workflows

Scriptify: Convert workflows to executable scripts

Demo

Getting started with BigML

Demo

Configuring sources and creating datasets on BigML

Demo

Cleaning, preparing and visualizing data

Demo

Building and evaluating a decision tree classification model

Demo

Using the model for predictions

Demo

Performing clustering using BigML

Demo

Performing anomaly detection using BigML

Summary

BigML is a powerful online platform that democratizes ML

Drag-and-drop data preparation and cleaning

Visualizations for exploratory data analysis

Large number of pre-built algorithms

Supervised and unsupervised learning

Powerful visualizations including partial dependence plots