**From: Primitives Annotation Schema**

<https://datadrivendiscovery.org/wiki/pages/viewpage.action?spaceKey=work&title=Primitives+Annotation+Schema>

Algorithm types:

Bayesian

Clustering

Decision Tree

Deep Learning

Dimensionality Reduction

Ensemble

Instance Based

Neural Networks

Regularization

Task types:

Data preprocessing

Feature extraction

Modeling

Evaluation

Learning types:

Deep Learning

Reinforcement learning

Semi-supervised learning

Supervised learning

Unsupervised learning

Input types:

DENSE

SPARSE

UNSIGNED\_DATA

~~IMAGES~~

~~IMAGES\_GRAYSCALE~~

~~IMAGES\_COLOR~~

~~TIME\_SERIES~~

~~SEQUENTIAL\_DATA~~

~~CATEGORICAL\_DATA~~

~~RELATIONAL DATABASE~~

~~VIDEO~~

~~AUDIO~~

~~GRAPH~~

~~TEXT~~

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From TA2-TA3 Interface Discussion:

<https://etherpad.datadrivendiscovery.org/p/TA2-TA3_Interface_Discussion>

Key observations:

      Several small problems inside one large problems

      Needs explainations of features used by models

      Traceability

      Visualization of models for non Data Science background people

Questions:

1. 1. Is it train once and deploy for production system? Or continously evolving systems?

* 2. Any constraints on response time ? Realtime or Batch
* 3. Data exchange formats  ?
* 4. Feature Lab - How can we emphasis more on Text and Tabular data? Very few examples of imagery data

Take a simple usecase and breakdown the steps

Sample Use case:

1. User comes and describes a problem
2. Dataset selection
3. Data Exploration
   1. Dataset Feature
   2. Model
4. Solution presentation
5. Evaluate solution
   1. Building trust
   2. Play
   3. Explore
6. Feedback and reiterate

Example - Where am I going to eat?

All above in WIKI

How can we convert these steps into API ?

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List of Use Cases provided by TA2/TA3 Performers:

<https://datadrivendiscovery.org/wiki/display/work/Use+Cases>

Also: Slack channel: #ta2ta3