








<p>Decisions </p> <p>How are predictions used to make decisions that provide the proposed value to the end-user?</p> <p>Load the data from input file; Create set of candidate models (for set range of clusters number); Choose initial centroids: for each model: random/k++; Select one of them based on Dunn/Silhouette; Choose distance metrics for the given dimensionality/user's wish (Euclidean, correlation or city-block); Skip less important dimensions (PCA); Save the result into the output file and visualise it (optional) .</p>	<p>ML task </p> <p>Input, output to predict, type of problem.</p> <p>Input: data of samples x features character Output: array of labels The problem is grouping one.</p>	<p>Value Propositions </p> <p>What are we trying to do for the end-user(s) of the predictive system? What objectives are we serving?</p> <p>We want to give end-user a way to find patterns in data.</p>	<p>Data Sources </p> <p>Which raw data sources can we use (internal and external)?</p> <p>Text file given by user.</p>	<p>Collecting Data </p> <p>How do we get new data to learn from (inputs and outputs)?</p> <p>No new data from the user, grouping is based on labels of other samples</p>
<p>Making Predictions </p> <p>When do we make predictions on new inputs? How long do we have to featurize a new input and make a prediction?</p> <p>The moment we load the file with data we make predictions for it. Depending on the size of data.</p>	<p>Offline Evaluation</p> <p>Methods and metrics to evaluate the system before deployment.</p> <p>Inertia, number of iterations, Silhouette coefficient/Dunn index, visualisation (optional)</p>	<p>None</p>	<p>Features</p> <p>Input representations extracted from raw data sources.</p> <p>The data given in the columns of input table; The reduced form of data by PCA for visualisation (optional)</p>	<p>Building Models </p> <p>When do we create/update models with new training data? How long do we have to featurize training inputs and create a model?</p> <p>One model per data, at the moment of runtime. The estimator can be reused for a different data - depending on the needs of the user.</p>
	<p>Live Evaluation and Monitoring</p> <p>Methods and metrics to evaluate the system after deployment, and to quantify value creation.</p>		