GROUP 10:

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TITLE: Predicting Dry beans classes using machine learning models.

Data source: Dataset is taken from the UCI Machine learning repository. In this site we can find many of the datasets which we can use for research in the machine learning field.

Description of the dataset:

Data set consists of 7 different types of beans classes. It has 13611 rows and 17 columns. 16 features are the independent features of dry beans and remaining is the Class feature which has types of dry beans.

Sample image of the dataset:

```
dt1.head()
```

centricity	ConvexArea	EquivDiameter	Extent	Solidity	roundness	Compactness	ShapeFactor1	ShapeFactor2	ShapeFactor3	ShapeFactor4	Class
0.549812	28715	190.141097	0.763923	0.988856	0.958027	0.913358	0.007332	0.003147	0.834222	0.998724	SEKER
0.411785	29172	191.272750	0.783968	0.984986	0.887034	0.953861	0.006979	0.003564	0.909851	0.998430	SEKER
0.562727	29690	193.410904	0.778113	0.989559	0.947849	0.908774	0.007244	0.003048	0.825871	0.999066	SEKER
0.498616	30724	195.467062	0.782681	0.976696	0.903936	0.928329	0.007017	0.003215	0.861794	0.994199	SEKER
0.333680	30417	195.896503	0.773098	0.990893	0.984877	0.970516	0.006697	0.003665	0.941900	0.999166	SEKER

The above image is a sample of dry beans dataset. We can see that sample values of dry beans features. These are some of the geometric features of the dry beans dataset.

IEEE Paper link:

https://ceur-ws.org/Vol-2951/paper3.pdf

Dataset source link:

https://archive.ics.uci.edu/dataset/602/dry+bean+dataset