



Classification of celestial objects from research project detection.

IBM Advanced Data Science Capstone – Rubén Bélmez

USED CASE

- Open source dataset of the Sloan Digital Sky Survey (SDSS).
- SDSS measured several features of many celestial objects.
 - Brightness measurements.
 - Velocities.
 - Redshift.
 - ...
- The goal of the project is to characterized those objects.

USED CASE

- Among the many public data releases, for this project DR16 was used.
- The particular goal of this dataset is to classify each object detected into a galaxy, a star or a quasar.

DATA SET

- Among the measurements of the objects there are brightness in different bands, coordinates, some features regarding the detection, etc.
- The access to the dataset was provided by Kaggle website.

DATA SET

- Complete dataset consists of measurements for 100k objects.
- Each object is described by a total of 16 features excluding the classification label.

