Spark Project

Important Notes

To run on a **local machine**, the SparkSession initializer must include the **_master("local")** line.

To run on the **hadoop cluster**, this line must be removed/commented out **before generating the JAR**.

Installing the program

The project includes configuration code for use with IntelliJ, including an easy way to compile and export the program to a JAR for use with a hadoop cluster.

Code for Logistic Regression can be found in spark.logisticregression.LRMain

Code for Decision Tree can be found in spark.decisiontree.DTMain

Static functions shared between the two classes can be found in spark.HelperFunctions

To generate a JAR file with IntelliJ

! Make sure .master(local) is commented out

Build -> Build Artifacts -> SparkProject -> Build

This will generate a JAR file in out/artifacts/SparkProject named SparkProject.jar

Running on the hadoop cluster

input should be the directory where the data file data.kdd can be found in your hdfs.

SparkProject.jar should be the name of the jar file which contains both the LRMain and DTMain classes.

Logistic Regression

spark-submit --class spark.logisticregression.LRMain --master yarn --deploy-mode cluster SparkProject.jar input

Decision Tree

spark-submit --class spark.decisiontree.DTMain --master yarn --deploy-mode cluster SparkProject.jar input