

Readme

I have submitted below 3 artifacts as per submission guidelines:

1. Jar file name is SparkMLAssignment-0.0.1-SNAPSHOT.jar
2. SparkMLAssignment.zip contains entire project
3. 2017CBDE639_AmitGoel_C2BDE_SparkMLAssignment_Report.pdf is the entire project report.

Steps to execute jar file:

1. Put jar file and input file in the same directory on ec2 instance or cloudera VM.
2. Put input file in hdfs using below command:
`hadoop fs -put gender-classifier-DFE-791531.csv .`
3. Run below commands:
 - a. Command to run jar file for **main program** to see performance metrics of finalized models:
`spark2-submit --class com.upgrad.ml.sparkmlassignment.SparkMLClassificationAssignment --master local --deploy-mode client SparkMLAssignment-0.0.1-SNAPSHOT.jar gender-classifier-DFE-791531.csv`
 - b. Command to run jar file for **testing program** to see the output of various test models:
`spark2-submit --class com.upgrad.ml.sparkmlassignment.SparkMLClassificationAssignmentModelTesting --master local --deploy-mode client SparkMLAssignment-0.0.1-SNAPSHOT.jar gender-classifier-DFE-791531.csv`
 - c. Command to run jar file for **data pre-processing program** to see data during pre-processing steps:
`spark2-submit --class com.upgrad.ml.sparkmlassignment.SparkMLClassificationAssignmentDataPreProcessing --master local --deploy-mode client SparkMLAssignment-0.0.1-SNAPSHOT.jar gender-classifier-DFE-791531.csv`
4. In order to run the program in eclipse itself, we can setup run configurations for each program and add argument as path to the input file. Something like this:

Name: SparkMLClassificationAssignment

Main Arguments JRE Classpath Source Environment Common Prototype

Project:

SparkMLAssignment

Browse...

Main class:

com.upgrad.ml.sparkmlassignment.SparkMLClassificationAssignment

Search...

- ☐ Include system libraries when searching for a main class
- ☐ Include inherited mains when searching for a main class
- ☐ Stop in main

Name: SparkMLClassificationAssignment

Main Arguments JRE Classpath Source Environment Common Prototype

Program arguments:

data/gender-classifier-DFE-791531.csv

Variables...

VM arguments:

Variables...

Working directory:

☐ Default: \${workspace_loc:SparkMLAssignment}

☐ Other:

Workspace...

File System...

Variables...