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import org.apache.spark.ml.recommendation.ALS
import org.apache.spark.sql.{Encoders, SaveMode, SparkSession}

import java.io.File
import java.util.Properties

private case class Rating(userId:Int, movieId:Int, rating:Double)

object SparkMovieRec {
  def main(args: Array[String]): Unit = {

    val movieLensHomeDir = "/Users/serkan/Desktop/Course/Spark/data"
    val spark = SparkSession.builder.master("local").appName("MovieRec")
      .getOrCreate()
    import spark.implicits._

    val ratings = spark.sparkContext.textFile(new File(movieLensHomeDir,
"ratings.csv")).toString().map { line =>
      val fields = line.split(",")
      //Rating(userId, movieId, rating))
      (Rating(fields(0).toInt, fields(1).toInt, fields(2).toDouble))
    }

    println("Rating : " + ratings.count())

    val splits = ratings.randomSplit(Array(0.8, 0.2))
    val training = splits(0).toDF()

    val als = new ALS()
      .setUserCol("userId")
      .setItemCol("movieId")
      .setRatingCol("rating")

    val model = als.fit(training)

    val recommendation = model.recommendForAllUsers(5)
    recommendation.foreach(row => {
      println(row)
    })
  }
}
```

