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#Task 7: Using Spark ML to Produce Movie Recommendations

from pyspark.ml.recommendation import ALS
from pyspark.sql import SparkSession

spark = SparkSession.builder.appName("Movie Recommendations").getOrCreate()

# Sample data
data = [(1, 101, 5.0), (1, 102, 4.0), (2, 101, 3.0), (2, 103, 4.0)]
columns = ["UserID", "MovieID", "Rating"]
df = spark.createDataFrame(data, columns)

# ALS Model
als = ALS(userCol="UserID", itemCol="MovieID", ratingCol="Rating", nonnegative=True)
model = als.fit(df)

# Generate recommendations
recommendations = model.recommendForAllUsers(2)
recommendations.show()

spark.stop()
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+------+--------------------+
|UserID|     recommendations|
+------+--------------------+
|     1|[{101, 4.8650656}...|
|     2|[{103, 3.8954074}...|
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```

Start coding or generate with AI.