```
import pandas as pd
from sklearn.model_selection import train_test_split
from sklearn.linear_model import LinearRegression
from sklearn.metrics import mean_squared_error
from sklearn.preprocessing import MultiLabelBinarizer

data = pd.read_csv('IMDb India Movies.csv')

mlb = MultiLabelBinarizer()
genre_encoded = mlb.fit_transform(data['genre'])
director_encoded = pd.get_dummies(data['director'], drop_first=True)
actors_encoded = mlb.fit_transform(data['actors'])

features = pd.concat([pd.DataFrame(genre_encoded, columns=mlb.classes_),
director_encoded,pd.DataFrame(actors_encoded, columns=mlb.classes_)],
                     axis=1)

target = data['rating']

X_train, X_test, y_train, y_test = train_test_split(features, target, test_size=0.2, random_state=42)

model = LinearRegression()
model.fit(X_train, y_train)
predi = model.predict(X_test)
mean_sq_error = mean_squared_error(y_test, predi)
print(f'Mean Squared Error: {mean_sq_error}')
```