- 1 D:\Project\Amazon\.venv\Scripts\python.exe D:\Project
 \Amazon\Model_Development.py
- 2 D:\Project\Amazon\.venv\Lib\site-packages\sklearn\
 preprocessing_encoders.py:246: UserWarning: Found
 unknown categories in columns [8, 9] during transform
 . These unknown categories will be encoded as all
 zeros
- 3 warnings.warn(
- 4 2025/09/28 14:08:34 WARNING mlflow.models.model: `artifact_path` is deprecated. Please use `name` instead.
- 5 2025/09/28 14:08:53 WARNING mlflow.models.model:
 Model logged without a signature and input example.
 Please set `input_example` parameter when logging the
 model to auto infer the model signature.
- 6 Linear Regression Performance:
- 7 MAE: 28.93
- 8 RMSE: 36.69
- 9 R2: 0.49
- 11 D:\Project\Amazon\.venv\Lib\site-packages\sklearn\
 preprocessing_encoders.py:246: UserWarning: Found
 unknown categories in columns [8, 9] during transform
 . These unknown categories will be encoded as all
 zeros
- 12 warnings.warn(
- 13 2025/09/28 14:47:15 WARNING mlflow.models.model: artifact_path` is deprecated. Please use `name` instead.
- 14 2025/09/28 14:47:28 WARNING mlflow.models.model:
 Model logged without a signature and input example.
 Please set `input_example` parameter when logging the
 model to auto infer the model signature.
- 15 Random Forest Performance:
- 16 MAE: 17.23
- 17 RMSE: 22.52
- 18 R2: 0.81
- 20 D:\Project\Amazon\.venv\Lib\site-packages\sklearn\
 preprocessing_encoders.py:246: UserWarning: Found
 unknown categories in columns [8, 9] during transform

```
20 . These unknown categories will be encoded as all
  zeros
21
    warnings.warn(
22 2025/09/28 14:48:06 WARNING mlflow.models.model: `
  artifact_path` is deprecated. Please use `name`
  instead.
23 2025/09/28 14:48:15 WARNING mlflow.models.model:
  Model logged without a signature and input example.
  Please set `input_example` parameter when logging the
   model to auto infer the model signature.
24 Gradient Boosting Performance:
25
    MAE: 19.67
    RMSE: 25.08
26
    R2: 0.76
27
29
30 Best model selected: Random Forest with R2 = 0.81
31 2025/09/28 14:48:15 WARNING mlflow.models.model:
  artifact_path` is deprecated. Please use `name`
  instead.
32 2025/09/28 14:48:26 WARNING mlflow.models.model:
  Model logged without a signature and input example.
  Please set `input_example` parameter when logging the
   model to auto infer the model signature.
33 Best model saved as best_model.pkl
34
35 Process finished with exit code 0
36
```