Source code

```
from sklearn.metrics.pairwise import cosine_similarity
import pandas as pd
# Sample movie and user data
movies = pd.DataFrame({
 'movie_id': [1, 2, 3],
 'title': ['Inception', 'The Matrix', 'Interstellar'],
 'features': [[0.9, 0.1], [0.8, 0.2], [0.95, 0.05]] # Genre/Theme vectors
})
users = pd.DataFrame({
 'user_id': [101],
 'preferences': [[0.92, 0.08]] # User's genre/theme preference vector
})
# AI-driven matchmaking function
def match_user_to_movies(user_id):
 user_pref = users.loc[users['user_id'] == user_id, 'preferences'].values[0]
 movie_features = movies['features'].tolist()

 # Calculate similarity between user preference and movie features
 similarities = cosine_similarity([user_pref], movie_features)[0]
 movies['similarity'] = similarities

 # Sort by similarity score
 recommendations = movies.sort_values(by='similarity', ascending=False)
 return recommendations[['title', 'similarity']]
# Example usage
```

```
recommended = match_user_to_movies(101)

print("Recommended Movies:\n", recommended)
```