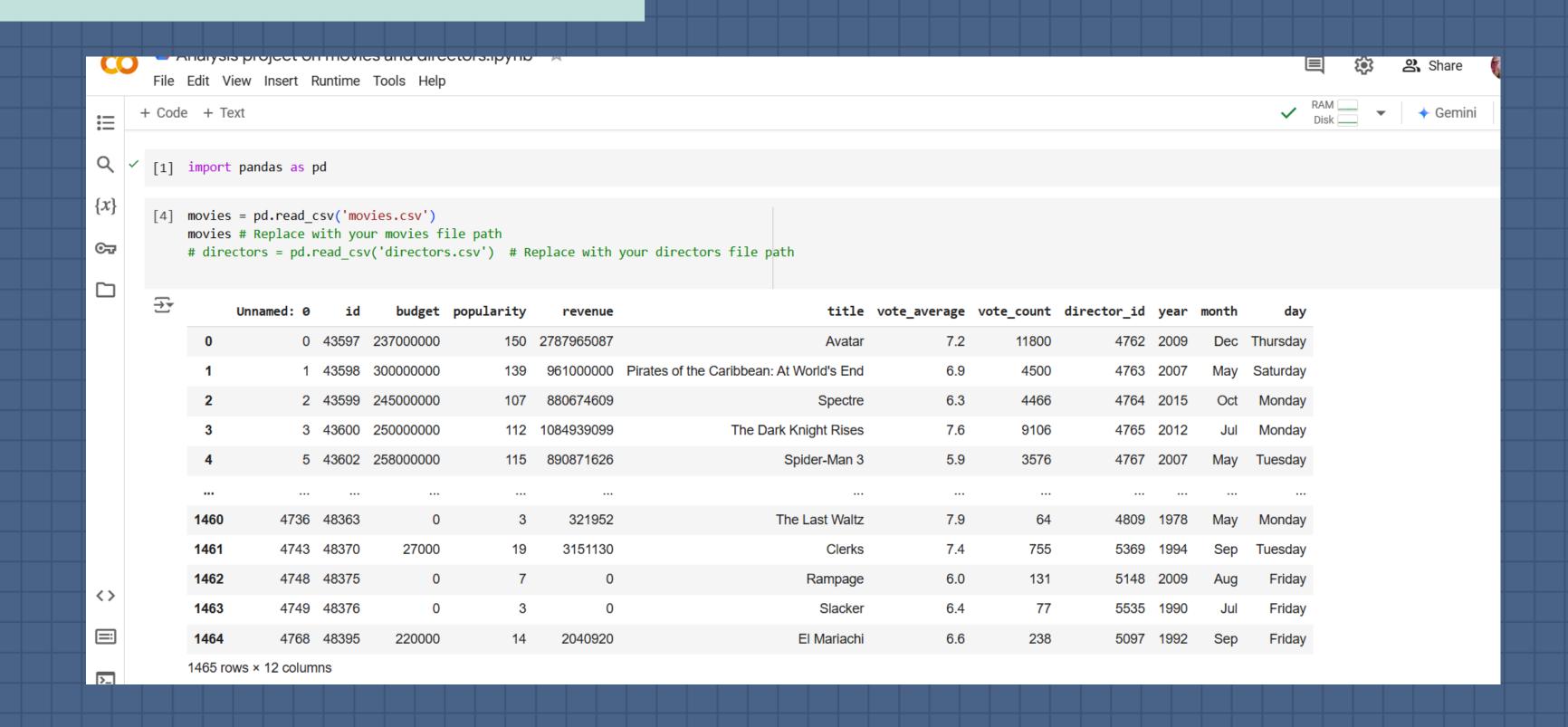


Movies Direactor Data Analysis Using Python

By – Vishakha jaiswal

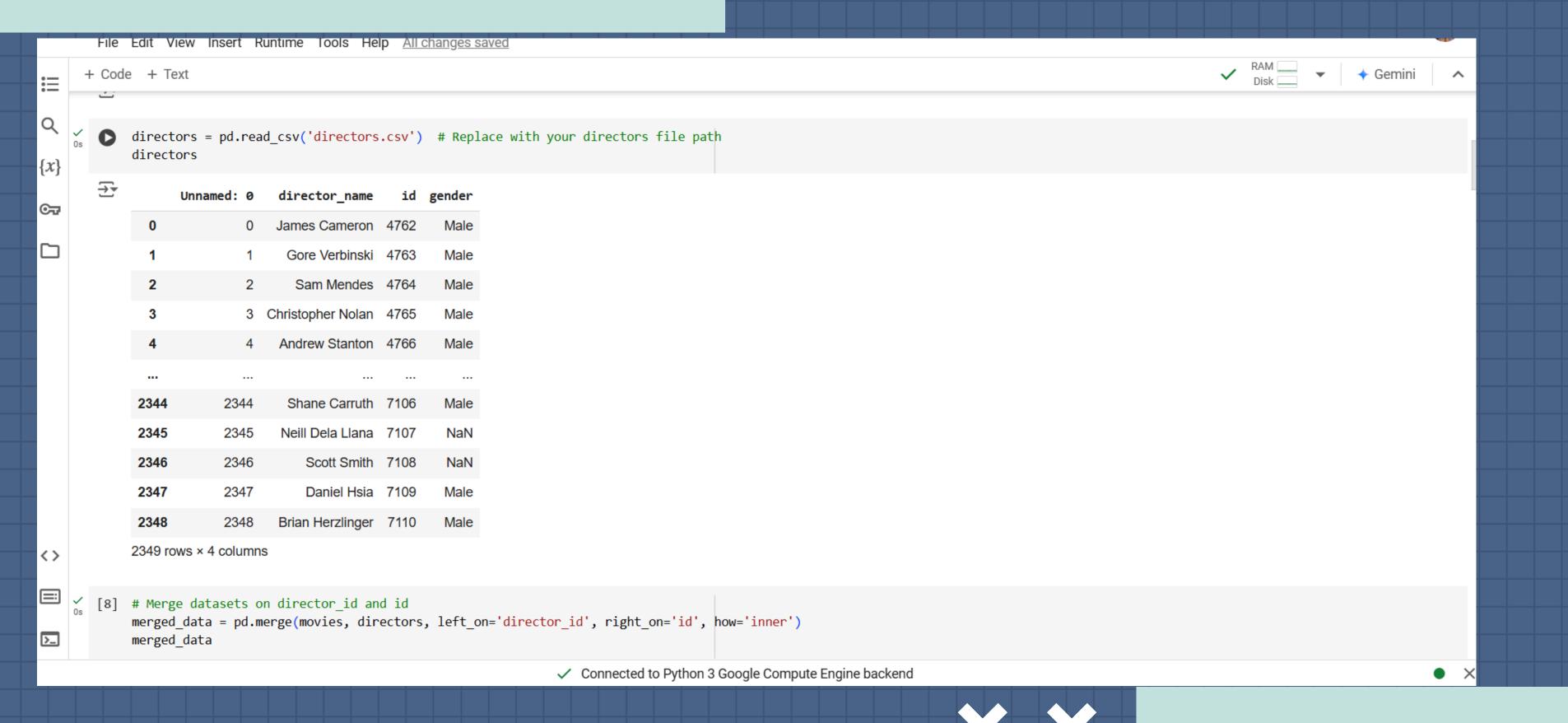


Dataset of movies





Dataset of Directors



Top-Grossing Movies

```
# Top 10 highest-grossing movies
top_grossing_movies = merged_data.nlargest(10, 'revenue')[['title', 'revenue']]
top_grossing_movies
```

title	revenue					
Avatar	2787965087					
Titanic	1845034188					
Furious 7	1506249360					
Transformers: Dark of the Moon	1123746996					
e Lord of the Rings: The Return of the King	1118888979			Top 10 F	lighest-Grossing	Mc
Skyfall	1108561013	Avatar				
Transformers: Age of Extinction	1091405097	Titanio	: -			
The Dark Knight Rises	1084939099	Furious 7	, -			
Pirates of the Caribbean: Dead Man's Chest	1065659812	Transformers: Dark of the Moor	1 -			
Pirates of the Caribbean: On Stranger Tides	1045713802	The Lord of the Rings: The Return of the King	J -			
		Skyfal	1 -			
		Transformers: Age of Extinction	1 -			
		The Dark Knight Rises	5 -			
		Pirates of the Caribbean: Dead Man's Ches	Ε-			
		Pirates of the Caribbean: On Stranger Tides	; -			
			0.0	0.5 1.0	1.5 Revenue	2.
	Avatar Titanic Furious 7 Transformers: Dark of the Moon The Lord of the Rings: The Return of the King Skyfall Transformers: Age of Extinction The Dark Knight Rises Pirates of the Caribbean: Dead Man's Chest	Avatar 2787965087 Titanic 1845034188 Furious 7 1506249360 Transformers: Dark of the Moon 1123746996 The Lord of the Rings: The Return of the King 1118888979	Avatar 2787965087 Titanic 1845034188 Furious 7 1506249360 Transformers: Dark of the Moon 1123746996 The Lord of the Rings: The Return of the King 1118888979 Skyfall 1108561013 Avatar Transformers: Age of Extinction 1091405097 The Dark Knight Rises 1084939099 Pirates of the Caribbean: Dead Man's Chest 1065659812 Transformers: Dark of the Moon 1123713802 The Lord of the Rings: The Return of the King 1145713802 Transformers: Age of Extinction 1045713802 The Lord of the Rings: The Return of the King 1145713802 Transformers: Age of Extinction 1145713802 The Lord of the Rings: The Return of the King 1145713802 Transformers: Age of Extinction 1145713802 The Lord of the Rings: The Return of the King 1145713802 Transformers: Age of Extinction 1145713802 The Lord of the Rings: The Return of the King 1145713802 Transformers: Age of Extinction 1145713802 Transformers: Age of Extinction 1145713802 The Lord of the Rings: The Return of the King 1145713802 Transformers: Age of Extinction 1145713802 The Lord of the Rings: The Return of the King 1145713802 Transformers: Age of Extinction 1145713802 The Lord of the Rings: The Return of the King 1145713802 The Lord of the Rings: The Return of the King 1145713802 The Lord of the Rings: The Return of the King 1145713802	Avatar 2787965087 Titanic 1845034188 Furious 7 1506249360 Transformers: Dark of the Moon 1123746996 The Lord of the Rings: The Return of the King 1118888979 Skyfall 1108561013 Avatar - Transformers: Age of Extinction 1091405097 The Dark Knight Rises 1084939099 Pirates of the Caribbean: Dead Man's Chest 1065659812 Transformers: Dark of the Moon - Transf	Avatar 2787965087 Titanic 1845034188 Furious 7 1506249360 Transformers: Dark of the Moon 1123746996 The Lord of the Rings: The Return of the King 1118888979 Skyfall 1108561013 Avatar Transformers: Age of Extinction 1091405097 The Dark Knight Rises 1084939099 Purious 7 - Pirates of the Caribbean: Dead Man's Chest 1045713802 The Lord of the Rings: The Return of the King Skyfall Transformers: Age of Extinction The Dark Knight Rises 1045713802 The Lord of the Rings: The Return of the King Skyfall Transformers: Age of Extinction The Dark Knight Rises Pirates of the Caribbean: Dead Man's Chest Pirates of the Caribbean: Don Stranger Tides	Avatar 2787965087 Titanic 1845034188 Furious 7 1506249360 Transformers: Dark of the Moon 1123746996 The Lord of the Rings: The Return of the King 1118888979 Skyfall 1108561013 Transformers: Age of Extinction 1091405097 The Dark Knight Rises 1084939099 Furious 7- Pirates of the Caribbean: Dead Man's Chest 1045713802 The Lord of the Rings: The Return of the King 114802 The Lord of the Rings: The Return of the King 114802 The Lord of the Rings: The Return of the King 114802 The Lord of the Rings: The Return of the King 114802 The Lord of the Rings: The Return of the King 114802 The Lord of the Rings: The Return of the King 114802 The Lord of the Rings: The Return of the King 114802 The Lord of the Rings: The Return of the King 114802 The Lord of the Rings: The Return of the King 114802 The Lord of the Rings: The Return of the King 114802 The Lord of the Rings: The Return of the King 114802 The Dark Knight Rises 114802 The Dark Knight

"Gender Distribution Among Directors"

```
# Gender-based analysis

gender_analysis = merged_data.groupby('gender').agg({
    'title': 'count',
    'revenue': 'mean',
    'vote_average': 'mean'
}).rename(columns={'title': 'movie_count'})

gender_analysis

movie_count revenue vote_average

gender
```

6.262500

6.381742

1.384982e+08

1.480160e+08

1309

Female

Male

"Top-Rated Movies"

top_rated_movies.to_csv('top_rated_movies.csv', index=False)
top_rated_movies

title vote_average

383	Fight Club	8.3
901	Schindler's List	8.3
1284	Pulp Fiction	8.3
45	The Dark Knight	8.2
459	Forrest Gump	8.2
917	GoodFellas	8.2
58	Interstellar	8.1
59	Inception	8.1
199	The Lord of the Rings: The Return of the King	8.1
785	Se7en	8.1

Most Popular Directors

```
# Most popular directors
popular_directors = merged_data.groupby('director_name')['popularity'].mean().nlargest(10)
popular_directors
```

popularity

director_name

 Christopher Nolan
 185.000000

 Francis Lawrence
 99.000000

 Gore Verbinski
 95.428571

 Peter Jackson
 87.444444

 George Miller
 86.428571

 James Cameron
 79.142857

 David Fincher
 75.500000

Quentin Tarantino 72.250000

Zack Snyder 71.857143

Guillermo del Toro 63.600000

dtype: float64

Movies with highest vote average

```
[10] # Movies with highest vote average
top_rated_movies = merged_data.nlargest(10, 'vote_average')[['title', 'vote_average']]
top_rated_movies
```

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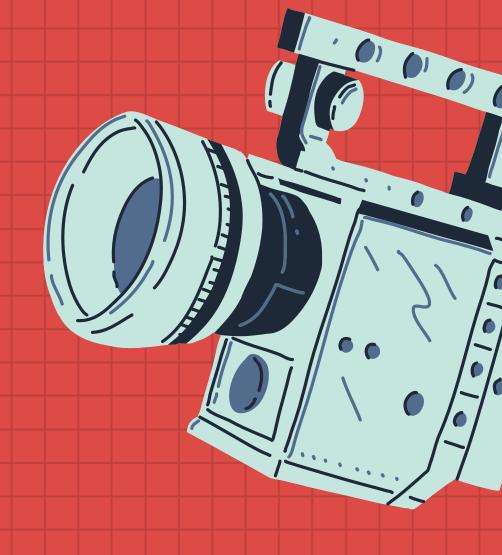
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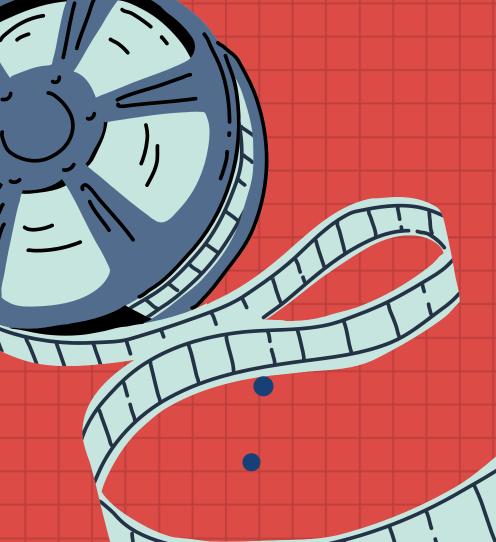












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