

```
import pandas as pd
df = pd.read_csv("scores.csv")
df.head()
```

	Batch	User_ID	Score
0	AI_ELITE_7	uid_149	6 / 7
1	AI_ELITE_7	uid_148	6 / 7
2	AI_ELITE_7	uid_147	7 / 7
3	AI_ELITE_7	uid_146	7 / 7
4	AI_ELITE_7	uid_145	4 / 7

Next steps: [Generate code with df](#) [New interactive sheet](#)

```
df['Score'] = df['Score'].str.split('/').str[0].astype(int)
df.head()
```

	Batch	User_ID	Score
0	AI_ELITE_7	uid_149	6
1	AI_ELITE_7	uid_148	6
2	AI_ELITE_7	uid_147	7
3	AI_ELITE_7	uid_146	7
4	AI_ELITE_7	uid_145	4

Next steps: [Generate code with df](#) [New interactive sheet](#)

```
df['Batch'].value_counts()
```

Batch	count
AI_ELITE_7	53
AI_ELITE_6	48
AI_ELITE_4	48

**dtype:** int64

```
df.groupby('Batch')['Score'].mean()
```

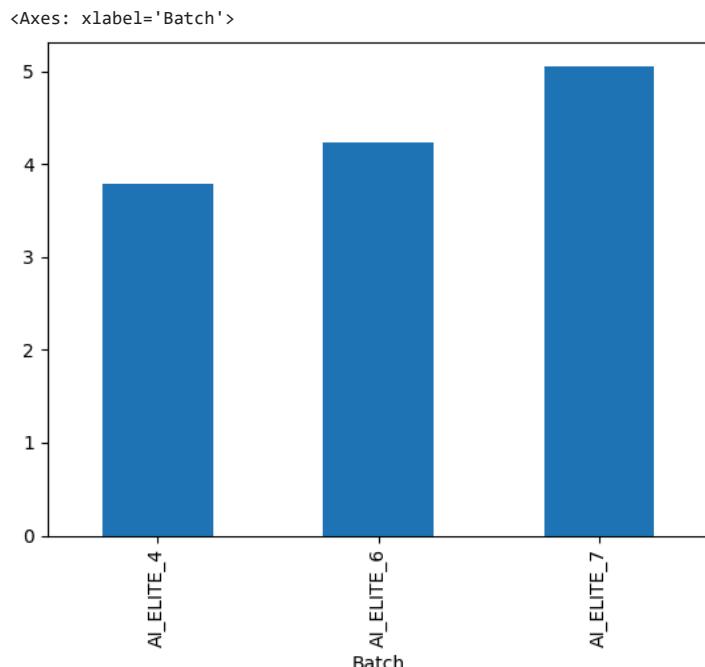
Batch	Score
AI_ELITE_4	3.791667
AI_ELITE_6	4.229167
AI_ELITE_7	5.056604

**dtype:** float64

```
df.groupby('Batch')['Score'].agg(['min','max'])
```

Batch	min	max
AI_ELITE_4	0	7
AI_ELITE_6	0	7
AI_ELITE_7	2	7

```
df.groupby('Batch')['Score'].mean().plot(kind='bar')
```



#### INSIGHTS:

1. Batch-wise analysis helps in identifying top-performance and low-performance batches.
2. AI\_ELITE\_7 batch students have shown strong performance. Many students scored 6/7 and 7/7. Low scores are very few, indicating good understanding of ML concepts
3. AI\_ELITE\_6 batch shows mixed performance. Some students scored high while some scored very low. This indicates inconsistent learning outcomes.
4. AI\_ELITE\_4 batch has comparatively lower performance. Most students between 2/7 and 4/7. This batch needs more mentoring and practice
5. The score distribution suggests that higher-performing batches have better overall understanding.
6. Performance variation across batches highlights the need for batch-specific learning strategies.

#### CONCLUSION:

- The analysis of ML test scores highlights clear performance differences across batches.
- AI\_ELITE\_7 demonstrates strong overall understanding of concepts.
- AI\_ELITE\_6 maintains moderate performance.
- AI\_ELITE\_4 requires additional academic support.

This analysis helps in understanding performance differences and planning better learning strategies.