

```
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()
```

count	
Batch	
AI_ELITE_7	53
AI_ELITE_6	48
AI_ELITE_4	48

dtype: int64

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

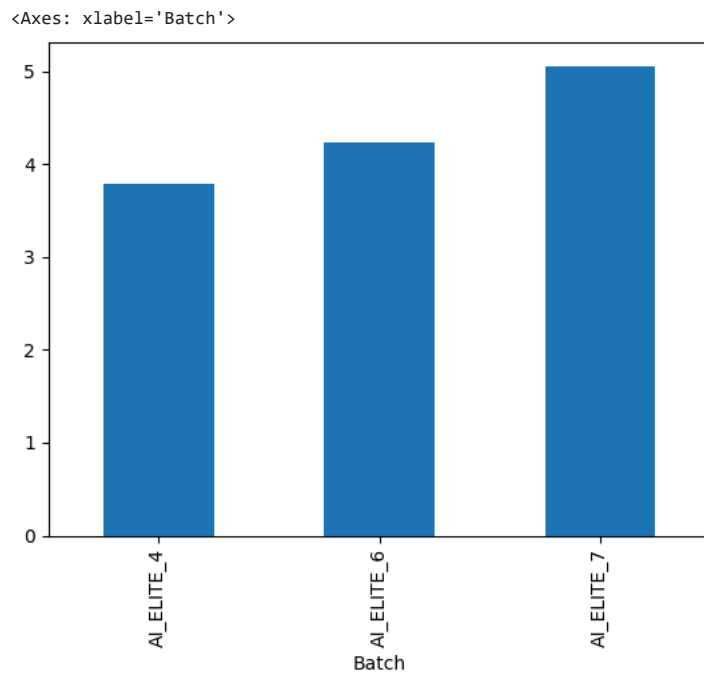
Score	
Batch	
AI_ELITE_4	3.791667
AI_ELITE_6	4.229167
AI_ELITE_7	5.056604

dtype: float64

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

	min	max	
Batch			
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.