



Colaboratory interface showing a Jupyter Notebook named `rush_estimator.ipynb`. The code cell contains the following Python code:

```
example_path = data.loc[data['count'] == data['count'].min(), 'path'].iloc[0]
results = detect_objects(example_path, detector)
draw_bboxes(example_path, results, threshold=0.25)
```

The output of the code is a video frame from a mall, where several people are walking. Red bounding boxes are drawn around the detected objects, indicating the results of the object detection process. The interface also shows a status bar at the bottom indicating the execution time (3s) and completion time (6:49 PM).

Colaboratory interface showing the same Jupyter Notebook `rush_estimator.ipynb`. The output of the code is a video frame from a mall, where several people are walking. Red bounding boxes are drawn around the detected objects, indicating the results of the object detection process. The interface also shows a status bar at the bottom indicating the execution time (3s) and completion time (6:49 PM).

Colab notebook interface showing a Jupyter Notebook with the following code and output:

```
sample['prediction'] = objects
sample.head(10)
```

	id	count	path	prediction
0	1649	1650	41 /content/WhatsApp Image 2022-09-24 at 11.19.34...	14
1	509	510	30 /content/WhatsApp Image 2022-09-24 at 11.19.34...	14
2	1294	1295	28 /content/WhatsApp Image 2022-09-24 at 11.19.34...	14
3	1852	1853	43 /content/WhatsApp Image 2022-09-24 at 11.19.34...	14
4	1044	1045	22 /content/WhatsApp Image 2022-09-24 at 11.19.34...	14
5	559	560	22 /content/WhatsApp Image 2022-09-24 at 11.19.34...	14
6	947	948	30 /content/WhatsApp Image 2022-09-24 at 11.19.34...	14
7	1530	1531	26 /content/WhatsApp Image 2022-09-24 at 11.19.34...	14
8	1542	1543	38 /content/WhatsApp Image 2022-09-24 at 11.19.34...	14
9	357	358	34 /content/WhatsApp Image 2022-09-24 at 11.19.34...	14

```
[97] sample['mae'] = (sample['count'] - sample['prediction']).abs()
```

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Colab notebook interface showing a Jupyter Notebook with the following code and output:

```
sample['mae'] = (sample['count'] - sample['prediction']).abs()
sample['mse'] = sample['mae'] ** 2

print(f'MAE = {sample["mae"].mean()} \ RMSE = {sample["mse"].mean()}')
plt.hist(sample['mae'], bins=20)
plt.title('Absolute Errors')
plt.show()
```

MAE = 17.18  
RMSE = 337.42

0s completed at 12:27 PM

