PX4 ULog Conversion Debugging Summary

Problem: AttributeError - 'ULog' object has no attribute 'get_duration'
Fix:
- Replaced ulog.get_duration() with:
duration_sec = (ulog.last_timestamp - ulog.start_timestamp) / 1e6
2. Problem: KeyError - 'gyro_rad_s[0]'
Fix:
- Replaced all occurrences of 'gyro_rad_s[0]' etc. with:
'gyro_rad[0]', 'gyro_rad[1]', 'gyro_rad[2]'
3. Problem: KeyError - 'magnetometer_ga[0]'
Fix:
- Removed magnetometer fields from the script because they were not present in the log
- Deleted these lines:
'Magnetometer_X':, 'Magnetometer_Y':, 'Magnetometer_Z':
- Removed from `final_columns` list too.
4. Problem: KeyError - 'roll'
Fix:
- 'vehicle_attitude' did not contain roll, pitch, yaw directly.
- Added conversion from quaternion to RPY using scipy:

from scipy.spatial.transform import Rotation as R

- 5. Problem: KeyError when accessing ['Magnetometer_X', ...] during final DataFrame slicing. Fix:
 - Removed 'Magnetometer_X', 'Magnetometer_Y', 'Magnetometer_Z' from final_columns list.

With these changes, the script now successfully loads the log, converts quaternion to RPY, synchronizes the data at 50 Hz, and writes to CSV.