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# Replace version compatibility error with a warning #51

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**anredlich** wants to merge 1 commit into [Interbotix:trossen-ai](#) from [anredlich:bugs/version-compatibility-fix](#) 

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**anredlich** commented [5 minutes ago](#)

Fix: improve version compatibility for older datasets

## Changes in `lerobot/common/datasets/lerobot_dataset.py`:

- Add `TROSSEN_V1_MESSAGE` import from `backward_compatibility` module (line 34)
- Add `enforce_breaking_major=False` to bypass strict version checking (line 113)
- Replace `SubVersionBackwardCompatibilityError` with warning message using `logging.warning()` (lines 147+)
- Return default version `v0.0` instead of raising error when subversion metadata is missing
- Allows working with older sample datasets so examples continue to function

## What this does

Fixes crashes when using older datasets that lack `trossen_subversion` metadata. Previously, `visualize_dataset.py` and `train.py` would error and exit when encountering version mismatches. Now they display a warning and continue working, making it possible to try out the examples and build on them for further testing and development.

This enables backward compatibility with existing datasets while maintaining version awareness through warning messages.

**Label:** (🐛 Bug)

## How it was tested

**Before fix:** Both commands crashed with `SubVersionBackwardCompatibilityError`

**After fix:** Both commands show warning and continue successfully

Tested scenarios:

- Datasets with missing `trossen_subversion` metadata
- Cross-version dataset compatibility
- Verified existing functionality remains unchanged

## How to checkout & try? (for the reviewer)

Test with older datasets that previously caused crashes:

```
# Visualize older dataset (should show warning, not crash)
python lerobot/scripts/visualize_dataset.py \
    --repo-id lerobot/pusht \
    --episode-index 0
python lerobot/scripts/visualize_dataset.py \
    --repo-id lerobot/pusht \
    --episode-index 0
```



```
--repo-id lerobot/aloha_sim_transfer_cube_human \
--episode-index 0

Train with older dataset (should show warning, not crash)
python lerobot/scripts/train.py \
  --dataset.repo_id=lerobot/aloha_sim_transfer_cube_human \
  --policy.type=act \
  --output_dir=outputs/train/act_aloha_transfer_test8 \
  --env.type=aloha \
  --env.task=AlohaTransferCube-v0 \
  --policy.device=cuda
```



Fix: improve version compatibility handling ...

0b918e3

## Reviewers

No reviews

Still in progress? [Convert to draft](#)

## Assignees

No one assigned

## Labels

None yet

## Projects

None yet

## Milestone

No milestone

## Development

Successfully merging this pull request may close these issues.

None yet

## 1 participant



☒ **Allow edits by maintainers** [?](#)