Videos Prompts Embeddings Depth Maps resolution, fps, duration, ... [I] Visual Filter [I 480P] Training [1 192P] Training [I 720P] Resolution Filter [I 480P] Resolution Filter [V] Visual Filter [V] Motion Filter [V 720P] Visual Filter [I 192P] Deduplication [V 720P] Motion Filter [V 720P] Resolution Filter [I 192P] Visual Filter [T SFT] Training [V 480P] Visual Filter [V 480P] Resolution Fifter [T 480P] Training T 480P] Resolution Filter [V 192] Deduplicatio [V 192P] Visual Filter [V 192P] Fundamental Filter [V 192P] Motion Filter Textual Data [T 192P] Training

Wan 2.1, Alibaba '25

Figure 3: Data provisioning across different training phases. For each stage, we dynamically adjust

the proportions of data related to motion, quality, and category based on data throughput.

Taking Stock

- 1. Massive unstructured data
- 2. Structured data
- 3. Large column appends w/ backfills
- 4. Dynamic partitioning across workers

runway