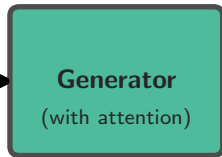


2.5D Processing: Context-Aware Slice Translation

Input: 3 slices \times 4 modalities = 12 channels



Slice $i - 1$ Slice i Slice $i + 1$



Output: 1 slice \times 4 modalities



Translated Slice i

Input: $[B, 12, H, W]$

Output: $[B, 4, H, W]$

Advantages:

- 3D context from adjacent slices
- Preserves anatomical consistency
- More efficient than full 3D
- Better than pure 2D slice-by-slice