

BART and Other Encoder-Decoder Models

⟳ BART: Denoising Autoencoder

Combines BERT (Encoder) + GPT (Decoder)

1. Corrupt Input

Add noise

2. Encode

BERT-style

3. Decode

GPT-style

4. Reconstruct

Original text

Token Masking

The [MASK] sat

Token Deletion

The _ sat

Span Infilling

The [X] mat

Sentence Permutation

Sent2 Sent1 Sent3

Document Rotation

...end → start...

Text Infilling

A B [Y] E F



mBART

Multilingual BART for 50+ languages



PEGASUS

Gap sentence generation for summarization



Marian

Efficient neural machine translation



BART Strengths

Particularly strong for generation & summarization



Encoder-Decoder Models

