NewsSummaryDataset

- tokenizer: T5Tokenizere
- data: pd.DataFrame
- text_max_token_len: int
- summary_max_token: int
- + __init__() + __len__(): int
- + __getitem__(index: int); dict

NewsSummaryDataModule

- train_df: pd.DataFrame
- test_df: pd.DataFrame
- batch size: int
- tokenizer: T5Tokenizer
- text_max_token_len: int
- train_dataset: NewsSummaryDataset
- + __init__()
- + setup()
- + train_dataloader(): DataLoader
- + test_dataloader(): DataLoader
- + val_dataloader(): DataLoader

NewsSummaryModel

- model: T5ForConditionalGeneration
- + __init__()
- + forward(input_ids, attention_mask, decoder_attention_mask, labels=None): tuple
- + training step(batch, batch size): float
- + validation_step(batch, batch_size): float
- + test_step(batch, batch_size): float
- + configure_optimizers(): AdamW