MEETING_SUMMARY

Abstractive Summarization Model

- **Group Number**: 48

- **Group Members**:

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1   Overview

The **MEETING_SUMMARY** model is a fine-tuned version of **Facebook's BART-large-xsum**, specifically designed for abstractive summarization of meeting transcripts and conversational texts.

2   Model Specifications

- **Base Model**: facebook/bart-large-xsum

- **Type**: Transformer-based Abstractive Summarization

- **Language**: English

- **Fine-tuned datasets**:

  - AMI Meeting Corpus
  - SAMSum Conversation Dataset
  - DIALOGSUM Dataset
  - XSum Dataset

3   Usage Instructions

3.1   Installation

```
pip install transformers torch
```

3.2   Example Python Code

```python
from transformers import pipeline

summarizer = pipeline("summarization", model="knkarthick/MEETING_SUMMARY")

input_text = """
John: We need to discuss the quarterly results.
Anna: Sure, the sales have increased by 10%, thanks to the new campaign.
John: Excellent, but we still need to address the rising production costs.
"""

summary_output = summarizer(input_text, max_length=100, min_length=25, do_sample=False)
print(summary_output[0]['summary_text'])
```

4 Repository Files

- `pytorch_model.bin`: PyTorch-compatible weights
- `tf_model.h5`: TensorFlow-compatible weights
- `model.safetensors`: Safe tensor format model weights
- **Tokenizer files**:
  - `tokenizer_config.json`
  - `tokenizer.json`
  - `vocab.json`
  - `merges.txt`
  - `special_tokens_map.json`
- `config.json`: Model configuration file
- `README.md`: Documentation and usage details

5 Evaluation and Performance

Evaluated on the SAMSum conversational summarization dataset, this model delivers strong performance in generating accurate and concise summaries suitable for meetings and conversational texts.

6 Licensing

The project is released under the **Apache-2.0 License**.
See: Apache 2.0 License

7 Acknowledgements

We acknowledge and thank the creators of:

- Facebook BART-large-xsum
- AMI Meeting Corpus
- SAMSum Dataset
- DIALOGSUM Dataset
- XSum Dataset

8 Contributions

Contributions and suggestions are warmly welcomed. Feel free to open issues or pull requests.

9 Contact Information

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Group Information: