

LLM ESE Component

1. Task 1

Models & Settings

You can override with any Hugging Face model ID.

NER model id

Davlan/xlm-roberta-base-ner-hrl

Summarization model id

csebuetnlp/mt5_multilingual_XLSum

EN→FR Translation model id

Helsinki-NLP/opus-mt-en-fr

Generation Settings

Max output length (tokens)

256

16

1024

☐ Use sampling (stochastic)

Temperature (if sampling)

1.00

0.10

2.00

Multilingual NLP Toolkit

Implemented with Transformers. Supports Indic and foreign languages.

Tasks

1. Named Entity Recognition (NER) — multilingual model (works for English + many languages; Indic coverage varies)

2. Text Summarization — multilingual summarizer trained on XL-Sum

3. Machine Translation — English → French (MarianMT)

4. Evaluations — ROUGE for summarization, SacreBLEU for translation, optional precision/recall/F1 for NER

Tip: You can switch models from the sidebar if you have a preferred checkpoint.

Named Entity Recognition

Summarization

EN→FR Translation

Evaluation

Named Entity Recognition (Multilingual)

Paste text in English or another supported language. Model choice affects coverage.

Input Text

भारत के प्रधानमंत्री नरेंद्र मोदी ने नई दिल्ली में G20 शिखर सम्मेलन का उद्घाटन किया।

Apple Inc. announced new products in California.

Run NER

☒ Show table output

Entities

entity_group	score	word	start	end
LOC	0.9996	भारत	0	4
PER	0.9986	नरेंद्र मोदी	20	33
LOC	0.9973	नई दिल्ली	36	46
ORG	0.9995	Apple Inc.	84	95
LOC	0.9998	California	121	132

Inline Highlight

भारत | LOC के प्रधानमंत्री नरेंद्र मोदी | PER ने नई दिल्ली | LOC में G20 शिखर सम्मेलन का उद्घाटन किया। Apple Inc. | ORG announced new products in California | LOC .



Multilingual Summarization (mT5 · XL-Sum)

Works for many languages including Hindi, Bengali, Tamil, Telugu, Marathi, English, and more.

Long text (any supported language)

भारत में हाल के वर्षों में डिजिटल भुगतान में तेज़ी से वृद्धि हुई है।
UPI जैसे प्लेटफ़ॉर्म ने छोटे व्यापारियों और उपभोक्ताओं दोनों के लिए लेनदेन को आसान बना दिया है।
इसके परिणामस्वरूप केशलेस अर्थव्यवस्था की ओर एक महत्वपूर्ण बदलाव देखा जा रहा है।

Min summary length

40

5

Max summary length

120

400

Beam search: num_beams

4

1024

1

10

Summarize 🚀

Summary

भारत में डिजिटल भुगतान प्लेटफ़ॉर्म (upi) ने अपनी अर्थव्यवस्था में तेज़ी से वृद्धि करने का फैसला किया है।



English → French Translation (MarianMT)

Enter English text; output will be in French.

English text

India has seen rapid growth in digital payments in recent years. Platforms like UPI have made transactions easier for both small merchants and consumers.

Translate →

French Output

L'Inde a connu une croissance rapide des paiements numériques ces dernières années. Des plateformes comme UPI ont facilité les transactions tant pour les petits commerçants que pour les consommateurs.

Evaluations:

SacreBLEU for EN→FR Translation

System translation (French)

L'Inde a connu une croissance rapide des paiements numériques ces dernières années. Des plateformes comme UPI ont facilité les transactions tant pour les petits commerçants que pour les consommateurs.

Reference translation (French)

L'Inde a connu une croissance rapide des paiements numériques ces dernières années. Des plateformes comme UPI ont facilité les transactions pour les petits commerçants et les consommateurs.

Compute SacreBLEU

```
{
  "sacrebleu" : 75.46697757057083
}
```

Reference summary (gold)

भारत में डिजिटल भुगतान तेज़ी से बढ़ रहा है। UPI जैसे प्लेटफ़ॉर्म ने लेनदेन को आसान बनाकर कैशलेस अर्थव्यवस्था को बढ़ावा दिया है।

Compute ROUGE

```
{
  "rouge1": {
    "p": 1
    "r": 1
    "f": 1
  }
  "rouge2": {
    "p": 0
    "r": 0
    "f": 0
  }
  "rougeL": {
    "p": 1
    "r": 1
    "f": 1
  }
}
```

Paste system predictions and gold entities as JSON arrays.

System predictions: from the NER tab output (list of dict, each with 'word' and 'entity_group')

System entities (JSON)

```
{
}
```

Gold entities (JSON) — list of {"text":..., "label":...}

```
{
}
```

☒ Match requires same label

Compute NER Scores

```
{
  "true_positives" : 2
  "false_positives" : 0
  "false_negatives" : 0
  "precision" : 1
  "recall" : 1
  "f1" : 1
}
```

2. Task 2

Settings

Documents folder

F:\LLM\ESE\docs

Load Documents

Deploy

Domain-Specific QA Chatbot - Bio

Chat with your domain documents interactively. Multi-turn, context-aware!

What is hypertension

Hypertension, also known as high blood pressure, is a condition where the force of blood against artery walls is consistently too high. It is often called a "silent killer" because it usually has no symptoms but can lead to serious health problems if untreated.

what all diseases are there in heart related

According to the provided context, heart disease refers to several types of heart conditions, including:

- Coronary artery disease: caused by the buildup of plaque in the arteries.
- Heart rhythm problems: no further information is provided about this condition.
- Congenital defects: no further information is provided about this condition.

These are the specific types of heart conditions mentioned in the context. However, it's worth noting that there are many other heart-related conditions, such as:

- Cardiomyopathy: disease of the heart muscle.

Ask something...

Settings

Documents folder

F:\LLM\ESE\docs

Load Documents

Deploy

Conversation Analysis

Number of Turns

2

Avg Response Length

88.5 words

Response Length per Turn

Turn	Response Length (words)
2	88.5

Ask something...

Response Length per Turn

