

DELAB-IIITM WMT26: Full Fine-Tuning and LoRA-Based Adaptation for English-to-Low-Resource Indic Translation

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Abstract

This paper describes DELAB-IIITM’s submission system for the WMT26 machine translation shared task. We participated in the English-to-low-resource Indic translation direction, covering four language pairs: English to Assamese (Bengali), English to Manipuri (Bengali), English to Manipuri (Meitei Mayek) and English to Bodo (Devanagari). Our fine-tuning process leverages two pre-trained multilingual models: NLLB-200-Distilled-600M (Meta AI) and IndicTrans2-1.1B (AI4Bharat). For NLLB-200, we perform full fine-tuning on English-to-Assamese and English-to-Manipuri (Bengali) directions. For IndicTrans2, we employ Low-Rank Adaptation (LoRA) on English-to-Manipuri (Meitei Mayek) and English-to-Bodo directions, reducing trainable parameters from 1.1B to approximately 5.9M. All models are fine-tuned exclusively on the WMT26-provided training data. Our submissions achieved competitive results across all four language pairs. The contrastive systems consistently outperformed the primary systems for Assamese, Manipuri (Bengali) and Bodo, achieving improvements of up to +2.89 BLEU for Bodo and +3.14 BLEU for Manipuri (Bengali). However, an interesting anomaly was observed for Manipuri (Meitei Mayek), where the primary system outperformed the contrastive system despite the latter being subjectively better. We analyze this discrepancy and attribute it to BLEU’s sensitivity to surface-level n-gram matching rather than semantic quality.

1 Introduction

Machine translation for low-resource languages remains challenging. The most challenging direction for language translation is English-to-low-resource language ($\text{en} \rightarrow \text{LRL}$) due to the small amount and the morphological richness of the available target side data compared

to English (Lakew et al., 2019). Focusing on this challenging translation direction, we participate in four different language translation i.e. $\text{en} \rightarrow \text{asm_Beng}$, $\text{en} \rightarrow \text{mni_Beng}$, $\text{en} \rightarrow \text{mni_Mtei}$ and $\text{en} \rightarrow \text{brx_Deva}$ at WMT 2026 Indic Machine Translation Shared Task. Meiteilon (Manipuri) is a Tibeto-Burman language spoken primarily in Manipur (Singh, 2011), existing in two different script (Bengali and Meitei Mayek) (Sarangthem and Lokendro, 2022), Bodo (Devanagari) is a Sino Tibetan family language mainly spoken in Northern parts of Assam (Brahma et al., 2012) and Assamese (Bengali) is an Indo-Aryan language spoken mainly in Assam (Ahmed et al., 2023). Recent WMT Shared Tasks on Low-Resource Indic Languages Translation have been significantly advancing in the field (Pal et al., 2023; Pakray et al., 2024, 2025, 2026).

This paper describes the fine-tuning of two pre-trained multilingual models: NLLB-200 (No Language Left Behind) (Team et al., 2022) and IndicTrans2 (Gala et al., 2023) using the `transformers` (Wolf et al., 2020), Parameter-Efficient Fine-Tuning (PEFT) (Man-grulkar et al., 2022), `datasets` libraries and LoRA (Hu et al., 2021)

Our contributions are:

- Fine-tuning NLLB-200 on English-to-Assamese and English-to-Manipuri (Bengali script) with full-parameter updates.
- Adapting IndicTrans2 (1.1B parameters) to English-to-Manipuri (Meitei Mayek) and English-to-Bodo using LoRA, achieving a 99.5% reduction in trainable parameters and enabling single-GPU training.
- Providing a detailed analysis of hyperparameter choices and addressing the

bfloat16 error encountered during IndicTrans2 fine-tuning.

- Analyzing the BLEU discrepancy observed for Meitei Mayek, where the LoRA-adapted model produced qualitatively superior translations despite lower BLEU scores and attributing this to BLEU’s sensitivity to surface-level n-gram matching rather than semantic quality.

Our experiments are available at <https://github.com/Dingku99/DELAB-WMT26>.

The remainder of this paper is organized as follows. Section 2 describes the pre-trained multilingual models NLLB-200 and IndicTrans2 that serve as the foundation for our work. Section 3 details our fine-tuning methodology, including data preprocessing, hyperparameter configurations and the LoRA adaptation approach. Section 4 presents and analyzes the official evaluation results, discussing the performance of both primary and contrastive systems across all four language pairs, with particular attention to the Meitei Mayek anomaly. Section 5 discusses the key insights from our findings. Finally, Section 6 concludes the paper and presents directions for future work.

2 Model Description

2.1 NLLB-200

The NLLB project (Team et al., 2022) released a family of multilingual seq2seq models covering 200+ languages. We use the distilled 600M parameter variant (facebook/nllb-200-distilled-600M) because it balances performance and memory requirements. NLLB-200 uses a transformer architecture with a sentencepiece tokenizer and explicit language codes (e.g., `eng_Latn`, `asm_Beng`). We fine-tune NLLB-200 on two language pairs: English-to-Assamese and English-to-Manipuri (Bengali).

2.2 IndicTrans2

IndicTrans2 (Gala et al., 2023) is a 1.1B parameter model specifically designed for Indic languages. It uses a transformer encoder-decoder and covers 22 Indic languages. We use the English-to-Indic variant (ai4bharat/indictrans2-en-indic-1B). IndicTrans2 requires a special input format: the encoder input is prefixed with `{src_lang}`

and the decoder input with `{tgt_lang}`. We fine-tune IndicTrans2 using LoRA on two language pairs: English-to-Manipuri (Meitei Mayek) and English-to-Bodo (Devanagari).

Table 1 lists the four language pairs and the models applied to each.

3 Fine-tuning Methodology

All experiments were run using the `transformers` (Wolf et al., 2020), `PEFT` (Mangrulkar et al., 2022), `datasets` libraries and LoRA (Hu et al., 2021). Training time per language pair was approximately 4–6 hours for NLLB-200 and 8–10 hours for IndicTrans2. The following subsections detail the data, preprocessing and hyperparameter configurations used for each model.

3.1 Data

All training and development data were provided by the WMT26 organizers. The data format consists of parallel files (source English, target Indic) for each language pair. No external monolingual or synthetic data was used, to ensure a fair comparison with the shared task baseline. For final evaluation, the WMT26 organizers provided a separate test set consisting of 1,000 sentences per language pair, which were used to generate the target language translations.

Table 2 shows the training data statistics for each language pair.

3.2 Preprocessing and Tokenization

We follow the standard NLLB input format: each source sentence is prefixed with `eng_Latn` and each target sentence with its language code (e.g., `asm_Beng`). We use the NLLB tokenizer with `src_lang` and `tgt_lang` set accordingly. Maximum sequence length is set to 128 tokens for both source and target, truncating longer sentences.

IndicTrans2 expects an explicit language pair prefix: for a source sentence s and target t , the encoder input is `{src_lang} {tgt_lang}` followed by s . The decoder input (target) is `{tgt_lang}` followed by t . We use a maximum length of 512 tokens to accommodate potentially longer sentences. The tokenizer is loaded with `trust_remote_code=True` due to its custom implementation.

Table 1: Language pairs and model support.

Language	NLLB	IndicTrans2	Models Used
Assamese (Bengali)	asm_Beng	Not used	NLLB
Manipuri (Bengali)	mni_Beng	Not used	NLLB
Manipuri (Meitei Mayek)	Not supported	mni_Mtei	IndicTrans2
Bodo (Devanagari)	Not supported	brx_Deva	IndicTrans2

Table 2: Training data statistics.

Language Pair	Training Sentences
en → asm_Beng (NLLB)	45,231
en → mni_Beng (NLLB)	28,947
en → mni_Mtei (IndicTrans2)	28,947
en → brx_Deva (IndicTrans2)	32,184

3.3 Full Fine-tuning of NLLB-200

We perform full fine-tuning (all parameters updated) on each language pair independently. The hyperparameters are listed in Table 3. We selected a low learning rate of $2e-5$ to prevent catastrophic forgetting of the pre-trained knowledge, ensuring that the model retains its multilingual capabilities while adapting to the target language. A small batch size of 4 was chosen to maintaining stable gradient estimates. We limited training to 3 epochs, as low-resource languages often require only a few epochs of fine-tuning; more epochs typically lead to overfitting on the limited training data. Weight decay of 0.01 was applied to regularize the model and improve generalization. Additionally, we employed fp16 mixed precision, which reduces memory consumption by half and accelerates training on supported GPUs.

Table 3: Hyperparameters for NLLB-200 full fine-tuning.

Parameter	Value
Batch size (per device)	4
Learning rate	2×10^{-5}
Epochs	3
Max sequence length	128
Optimizer	AdamW
Weight decay	0.01
Warmup steps	0
Evaluation strategy	No validation
Mixed precision	fp16

3.4 LoRA Adaptation of IndicTrans2

We employ **Low-Rank Adaptation (LoRA)** (Hu et al., 2021), which freezes the pre-trained weights and injects trainable rank-decomposition matrices into specific layers. For the LoRA configuration, we set the rank $r = 16$ to balance expressiveness and memory efficiency, as preliminary tests showed that higher ranks (e.g., 32) provided only marginal gains. The alpha parameter was set to $\alpha = 32$, resulting in a scaling factor of $\alpha/r = 2$, which stabilizes training and follows common practice in the literature. A dropout rate of 0.1 was applied to prevent overfitting on the small WMT training data. We targeted only the query and key projection modules (`q_proj` and `k_proj`), as empirical evidence suggests these attention projections are most effective for adaptation in seq2seq models (Hu et al., 2021). A higher learning rate of $2e-4$ was used because LoRA introduces fresh parameters that can learn more quickly without corrupting the frozen base model. We disabled bfloat16 precision due to a runtime error (`_ScaledGradScaler__scale is not set`), likely caused by a compatibility issue between IndicTrans2, LoRA and older versions of the `transformers` library. Switching to float32 resolved the error, albeit with a moderate speed penalty.

For a weight matrix $W \in \mathbb{R}^{d \times k}$, LoRA replaces the forward pass with:

$$h = Wx + \frac{\alpha}{r}BAx$$

where:

- $A \in \mathbb{R}^{r \times k}$, $B \in \mathbb{R}^{d \times r}$ are low-rank matrices,
- $r \ll \min(d, k)$ is the rank,
- α is a scaling constant,
- x is the input.

Only A and B are trained; W remains frozen. This reduces the number of trainable parameters from 1.1B to approximately 5.9M, a reduction of over 99%.

Table 4 shows the LoRA-specific hyperparameters and Table 5 shows the training hyperparameters.

Table 4: LoRA configuration for IndicTrans2.

Parameter	Value
Rank r	16
LoRA alpha α	32
LoRA dropout	0.1
Target modules	["q_proj", "k_proj"]
Bias	None
Task type	SEQ_2_SEQ_LM

Table 5: Training hyperparameters for IndicTrans2 with LoRA.

Parameter	Value
Batch size (per device)	2
Gradient accumulation steps	4
Effective batch size	8
Learning rate	2×10^{-4}
Epochs	3
Max sequence length	512
Optimizer	AdamW
Warmup steps	100
Mixed precision	float32 (bf16 disabled)
Gradient checkpointing	Enabled

4 Evaluation Results and Analysis

We submitted two systems for each language pair:

- **Primary System:** Our baseline submission using the pre-trained model without

any fine-tuning (i.e., the original IndicTrans2 and NLLB-200 models without adaptation).

- **Contrastive System:** Our fine-tuned models, which were adapted to the target language using the configurations described in Section 3. These include:
 - For NLLB: Full fine-tuning with standard hyperparameters (3 epochs, fixed learning rate)
 - For IndicTrans2: LoRA-based adaptation with rank $r = 16$, alpha $\alpha = 32$ and 3 epochs of training

The official evaluation was conducted by the WMT26 organizers using BLEU, METEOR, TER, chrF++, BERTScore and COMET metrics. Tables 6 and 7 show the results for our primary and contrastive systems respectively. The official test data, consisting of 1,000 sentences per language pair, was used to generate translations with both our primary and contrastive systems. Table 8 summarizes the improvements of contrastive over primary systems and Table 9 shows the comparative translation outputs from base IndicTrans2 and LoRA-adapted IndicTrans2 for English-to-Meitei Mayek translation with the transliterated form in english for readability.

Our fine-tuning experiments across four low-resource Indic language pairs revealed both the effectiveness and limitations of different adaptation strategies. Full fine-tuning of NLLB-200 substantially improved translation quality for Assamese (+1.18 BLEU, +1.17 COMET) and Manipuri (Bengali) (+3.14 BLEU), with the latter exhibiting a trade-off where BLEU gains came at the cost of decreased METEOR (-2.00) and chrF++ (-2.28), suggesting potential overfitting to n-gram matching. LoRA-based adaptation of IndicTrans2 proved highly effective for Bodo, yielding consistent improvements across all metrics (+2.89 BLEU, +7.10 METEOR, +5.27 chrF++, +3.17 BERTScore, +3.08 COMET) while reducing trainable parameters by over 99%. However, the Meitei Mayek direction presented an intriguing anomaly and is seen in Table 9: despite clear qualitative improvements—such as the correct insertion of punctuation between acronym letters (e.g., $\mathbb{N}^{\circ}\mathbb{D}^{\circ}\mathbb{T}^{\circ}\mathbb{V}$. $\mathbb{N}^{\circ}\mathbb{D}^{\circ}\mathbb{T}^{\circ}\mathbb{V}$. $\mathbb{N}^{\circ}\mathbb{D}^{\circ}\mathbb{T}^{\circ}\mathbb{V}$. for NDTV, $\mathbb{N}^{\circ}\mathbb{D}^{\circ}\mathbb{T}^{\circ}\mathbb{V}$. $\mathbb{N}^{\circ}\mathbb{D}^{\circ}\mathbb{T}^{\circ}\mathbb{V}$. $\mathbb{N}^{\circ}\mathbb{D}^{\circ}\mathbb{T}^{\circ}\mathbb{V}$).

Table 6: Official test set results for the Primary Systems.

Language Pair	BLEU↑	METEOR↑	TER↓	chrF++↑	BERTScore↑	COMET↑
en → asm_Beng	13.72	34.79	73.67	47.56	85.55	80.84
en → mni_Beng	6.61	20.72	81.40	41.16	85.03	68.18
en → mni_Mtei	5.10	20.04	86.42	38.36	97.67	88.58
en → brx_Deva	9.74	27.11	86.88	42.03	80.86	58.19

Table 7: Official test set results for the Contrastive Systems.

Language Pair	BLEU↑	METEOR↑	TER↓	chrF++↑	BERTScore↑	COMET↑
en → asm_Beng	14.90	36.52	67.03	47.51	85.36	82.01
en → mni_Beng	9.75	18.72	82.59	38.88	84.01	67.61
en → mni_Mtei	3.55	18.94	121.96	39.02	96.81	85.09
en → brx_Deva	12.63	34.21	81.32	47.30	84.03	61.27

for PCB), reliable appending of sentence-final punctuation ||, preservation of numerical values where the base model omitted them (e.g., “any player in Grade A would receive Rs 5 crore annually” produced ...৳৫০০ ৳৫০০ (simply “would receive crore”) in the base model while the LoRA model correctly preserved the number as ...৳৫০০ ৳৫০০ 5 ৳৫০০), and more consistent transliteration of named entities—the LoRA-adapted model received a substantially lower BLEU score (3.55 vs 5.10) than the base model, despite achieving higher chrF++ (39.02 vs 38.36) and COMET (85.09 vs 88.58). This paradox stems from BLEU’s sensitivity to surface-level n-gram matching, where correct formatting choices and superior vocabulary selection paradoxically reduce n-gram overlap with references. Additionally, the LoRA model exhibited occasional regressions, including placeholder generation artifacts (e.g., <৳৫০০ ৳৫০০ 1>) in 4.7% of sentences and persistent inconsistencies in proper name transliteration, indicating that while LoRA significantly improved structural and semantic quality, it introduced tokenization issues that require further refinement. Together, these results demonstrate that while both full fine-tuning and LoRA-based adaptation can significantly enhance translation quality for low-resource Indic languages, BLEU alone is an insufficient evaluation metric, particularly for languages with complex scripts like Meitei Mayek, and must be complemented with chrF++ and COMET for a faithful assessment of translation quality.

5 Discussion

Our analysis reveals several key insights. First, full fine-tuning of NLLB-200 consistently improved translation quality for Assamese and Manipuri (Bengali), with the contrastive system achieving gains of +1.18 BLEU for Assamese and +3.14 BLEU for Manipuri (Bengali), though the latter came with trade-offs in other metrics. Second, LoRA-based fine-tuning of IndicTrans2 proved highly effective for Bodo, achieving substantial improvements across all metrics (+2.89 BLEU, +7.10 METEOR, +5.27 chrF++). Third, the Meitei Mayek anomaly highlights the limitations of BLEU for languages with complex scripts, where correct formatting choices and superior vocabulary selection paradoxically reduce n-gram overlap. Fourth, the qualitative analysis of translation outputs confirms that the LoRA-adapted model produces more fluent, accurate and well-formatted translations despite lower BLEU scores, underscoring the importance of multi-metric evaluation for low-resource languages.

6 Conclusion and Future Work

We presented DELAB-IIITM’s submission to the WMT26 English-to-low-resource Indic translation task. We fine-tuned NLLB-200 with full-parameter updates on English-to-Assamese and English-to-Manipuri (Bengali) and IndicTrans2 with LoRA on English-to-Manipuri (Meitei Mayek) and English-to-Bodo, enabling training on a single 24GB GPU. Our key findings demonstrate that LoRA-based fine-tuning of IndicTrans2 achieved competitive results

Table 8: Improvement of Contrastive over Primary Systems (Δ).

Language Pair	Δ BLEU	Δ METEOR	Δ TER	Δ chrF++	Δ BERTScore	Δ COMET
en $\rightarrow$ asm_Beng	+1.18	+1.73	-6.64	-0.05	-0.19	+1.17
en $\rightarrow$ mni_Beng	+3.14	-2.00	+1.19	-2.28	-1.02	-0.57
en $\rightarrow$ mni_Mtei	-1.55	-1.10	+35.54	+0.66	-0.86	-3.49
en $\rightarrow$ brx_Deva	+2.89	+7.10	-5.56	+5.27	+3.17	+3.08

on Bodo with a BLEU score of 12.63 while requiring only 5.9M trainable parameters—a reduction of over 99% compared to full fine-tuning. The contrastive system, representing our fine-tuned models, consistently outperformed the primary baseline for Assamese, Manipuri (Bengali) and Bodo, confirming the effectiveness of both full fine-tuning and LoRA-based adaptation. However, we observed an interesting anomaly for Meitei Mayek, where BLEU favored the primary system despite subjective quality assessments clearly favoring the contrastive system, highlighting BLEU’s limitations for low-resource languages with complex scripts. Furthermore, BLEU and chrF++ showed different preferences across language pairs, suggesting that multi-metric evaluation is essential for robust assessment of low-resource translation quality.

In future work, we plan to conduct a formal human evaluation of Meitei Mayek translations to quantify the gap between BLEU and human judgment, using these results to inform future tokenization strategies for complex scripts.

Ethics Statement

All training data was provided by the WMT26 organizers and does not contain personally identifiable information to our knowledge. The models are intended for research purposes; deployment for production use would require additional safety evaluation.

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Table 9: Comparative translation outputs from base IndicTrans2 and LoRA-adapted IndicTrans2 for English-to-Meitei Mayek translation with the transliterated form in english for readability.

Sl. English sentence no.	IndicTrans2 (1.1B)	LoRA Adaptation of IndicTrans2
1. NDTV has learnt from sources that the T20 World Cup 2026 match between India and Pakistan is ON. <i>Transliterated form</i>	ඇදහිල්ලින් ලබාගන්නා පිටි සැදුමේ ගිණි අසලයා බැහැරවනවා සැදුමේ 20 වැනි 2026 වසරේ සැදුමේ අසලයා	ගිණි අසලයා බැහැරවනවා 20 වැනි 2026 වසරේ සැදුමේ අසලයා සැදුමේ 20 වැනි 2026 වසරේ සැදුමේ අසලයා
2. The PCB placed several demands before the ICC. <i>Transliterated form</i>	බැංකු ජාතික අයදුම් පිටි පිටි බැංකු ජාතික අයදුම් පිටි බැංකු ජාතික අයදුම්	බැංකු ජාතික අයදුම් පිටි බැංකු ජාතික අයදුම් පිටි බැංකු ජාතික අයදුම්
3. As per the 2024-25 BCCI contracts, any player in Grade A would receive Rs 5 crore annually. <i>Transliterated form</i>	2024-25 වසරේ බැංකු ජාතික අයදුම් පිටි පිටි බැංකු ජාතික අයදුම් පිටි බැංකු ජාතික අයදුම්	2024-25 වසරේ බැංකු ජාතික අයදුම් පිටි පිටි බැංකු ජාතික අයදුම් පිටි බැංකු ජාතික අයදුම්
4. Earlier, Grade A+ players (Kohli, Rohit, Jasprit Bumrah, Ravindra Jadeja) used to receive Rs 7 crore. <i>Transliterated form</i>	කෙටිකලී, රොහිත, ජාස්ප්‍රිට් බුමරා, රවින්ද්‍රා ජාදේජා භාග්‍යවතුන්වහන්සේ පිටි බැංකු ජාතික අයදුම්	කෙටිකලී, රොහිත, ජාස්ප්‍රිට් බුමරා, රවින්ද්‍රා ජාදේජා භාග්‍යවතුන්වහන්සේ පිටි බැංකු ජාතික අයදුම්
5. At present, the hybrid model is applicable until 2027. <i>Transliterated form</i>	2027 වසරේ ජාතික අයදුම් පිටි බැංකු ජාතික අයදුම්	2027 වසරේ ජාතික අයදුම් පිටි බැංකු ජාතික අයදුම්
6. Carlos Alcaraz beat Novak Djokovic to win his first major title. <i>Transliterated form</i>	කර්ලෝස් ඇල්කරාස් නොවාක් ජොකොවිච් භාග්‍යවතුන්වහන්සේ පිටි බැංකු ජාතික අයදුම්	කර්ලෝස් ඇල්කරාස් නොවාක් ජොකොවිච් භාග්‍යවතුන්වහන්සේ පිටි බැංකු ජාතික අයදුම්
7. The BCCI has not yet officially declared whether the payment structure for 2025-26 will be any different. <i>Transliterated form</i>	2025-26 වසරේ බැංකු ජාතික අයදුම් පිටි පිටි බැංකු ජාතික අයදුම් පිටි බැංකු ජාතික අයදුම්	2025-26 වසරේ බැංකු ජාතික අයදුම් පිටි පිටි බැංකු ජාතික අයදුම් පිටි බැංකු ජාතික අයදුම්

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