Hybrid Architecture using CNN and LSTM for Image captioning in Hindi Language.

→ multi Layer CNN-LSTM Model.
→ 34.64% and 29.13% in term of BLEU Score (unigram) and BLEU score (Bigram)
→ early attempts : template Method.
→ uses Transfer Learning-Based Model to recognise object.
→ recognise object → using CNN Model. (VGG-16) → dropout rate → 0.3.
generate description → using RNN Model

Results.

→ experiments was performed on Flickr8K. Hindi dataset.
→ 8000 training Image.
→ 1000 reserved for ~~training~~ validation & testing.
→ 25 epochs.
→ Table 2 on page 9 contains BLEU score.

Model 1.

BLEU score (unigram) → 24.95%.
(bigram) → 5.39%.

Model 2.

unigram 25.77%.
Bigram 14.74%.

Model 3.

unigram 33.58%.
Bigram 26.47%.

Model 4.

unigram 34.64%.
Bigram 29.13%