

Image_Captioning_Generation

April 24, 2024

1 Image Captions Generation

1.0.1 Introduction

In this final project I will create and evaluate a model that generates captions for images. To do this I will need to use CNN's, text transformers, and image augmentation. This will be a very challenging project and I will use a multitude of resources to help me. I will be using the data source Flickr8K which has around 8000 images with captions that we will be able to use our supervised learning approach on. I will also so use Bilingual evaluation understudy (BLEU) to evaluate the performance of the model. Using BLEU is important for evaluation because it can give us benchmarks against to compare to.

1.0.2 Exploratory Data Analysis (EDA) — Inspect, Visualize and Clean the Data

The first step in eda is downloading the data in an environment we can work in. For this project I will be doing most of the work in Google Colab as it allows for easier use of cloud computing often for free if the project is small enough. I hope to keep it within those requirements.

This is how we download the data to the container that the Google colab notebook runs on:

```
[ ]: !wget -q https://github.com/jbrownlee/Datasets/releases/download/Flickr8k/
      ↪Flickr8k_Dataset.zip
      !wget -q https://github.com/jbrownlee/Datasets/releases/download/Flickr8k/
      ↪Flickr8k_text.zip
      !unzip -qq Flickr8k_Dataset.zip
      !unzip -qq Flickr8k_text.zip
      !rm Flickr8k_Dataset.zip Flickr8k_text.zip
```

We now need to set up variables to more easily reference the image data and scale it to an appropriate size. And pull that data into a structure we can use. I will then display some example images and one of the captions for the images.

```
[ ]: import os
      import matplotlib.pyplot as plt
      import matplotlib.image as mpimg
      from PIL import Image
      import numpy as np
```

```
[ ]: img_path = "Flicker8k_Dataset" # Path to the images
img_size = (299, 299) # Image Scaling
seq_len = 25

def load_captions_data(filename):
    """Loads captions (text) data and maps them to corresponding images.

    Args:
        filename: Path to the text file containing caption data.

    Returns:
        caption_mapping: Dictionary mapping image names and the corresponding_
        ↪ captions
        text_data: List containing all the available captions
    """

    with open(filename) as caption_file:
        caption_data = caption_file.readlines()
        caption_mapping = {}
        text_data = []
        images_to_skip = set()

        for line in caption_data:
            line = line.rstrip("\n")
            # Image name and captions are separated using a tab
            img_name, caption = line.split("\t")

            # Each image is repeated five times for the five different captions.
            # Each image name has a suffix `#(caption_number)`
            img_name = img_name.split("#")[0]
            img_name = os.path.join(img_path, img_name.strip())

            # We will remove caption that are either too short to too long
            tokens = caption.strip().split()

            if len(tokens) < 5 or len(tokens) > seq_len:
                images_to_skip.add(img_name)
                continue

            if img_name.endswith(".jpg") and img_name not in images_to_skip:
                # We will add a start and an end token to each caption
                caption = "<start> " + caption.strip() + " <end>"
                text_data.append(caption)

                if img_name in caption_mapping:
                    caption_mapping[img_name].append(caption)
                else:
```

```

        caption_mapping[img_name] = [caption]

    for img_name in images_to_skip:
        if img_name in caption_mapping:
            del caption_mapping[img_name]

    return caption_mapping, text_data

def show_image(image):
    img = mpimg.imread(image)
    new_size = img_size
    img_pil = Image.fromarray(img) # Create a new image object
    img_pil = img_pil.resize(new_size) # Resize the image
    img = np.array(img_pil) # Convert back to a NumPy array
    fig, ax = plt.subplots()

    ax.imshow(img)

    plt.show()

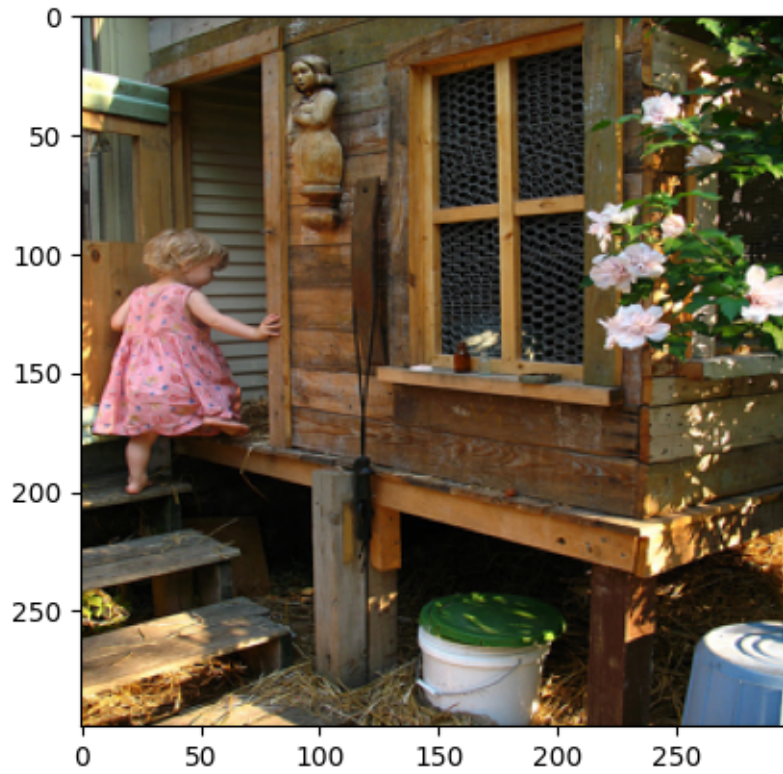
```

```

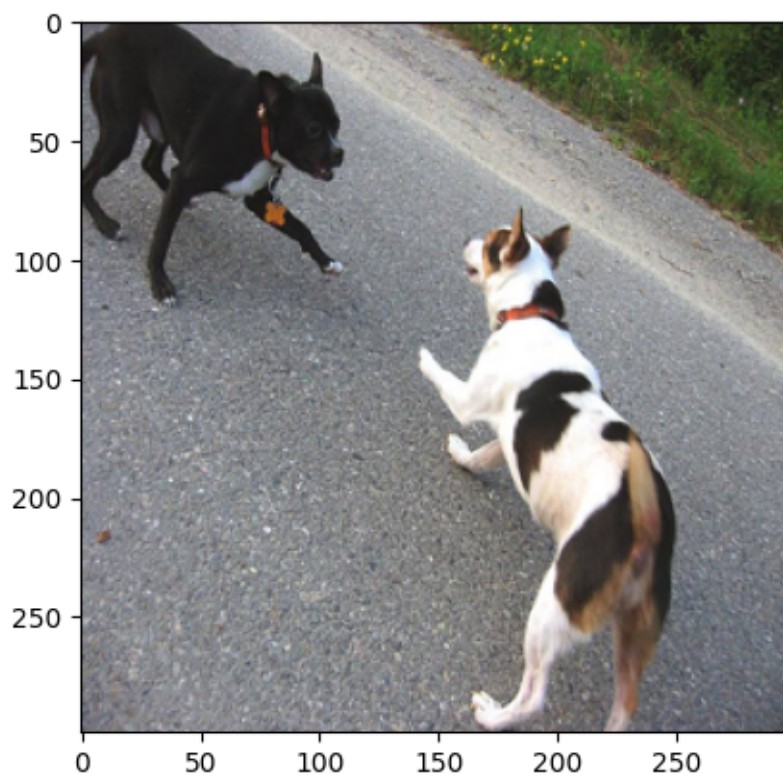
[ ]: captions_mapping, text_data = load_captions_data("Flickr8k.token.txt")

img_demo = list(captions_mapping.keys())[:3]
for x in img_demo:
    show_image(x)
    print(captions_mapping[x][1].replace("<start> ", "").replace(" <end>", "").
↪strip().strip())

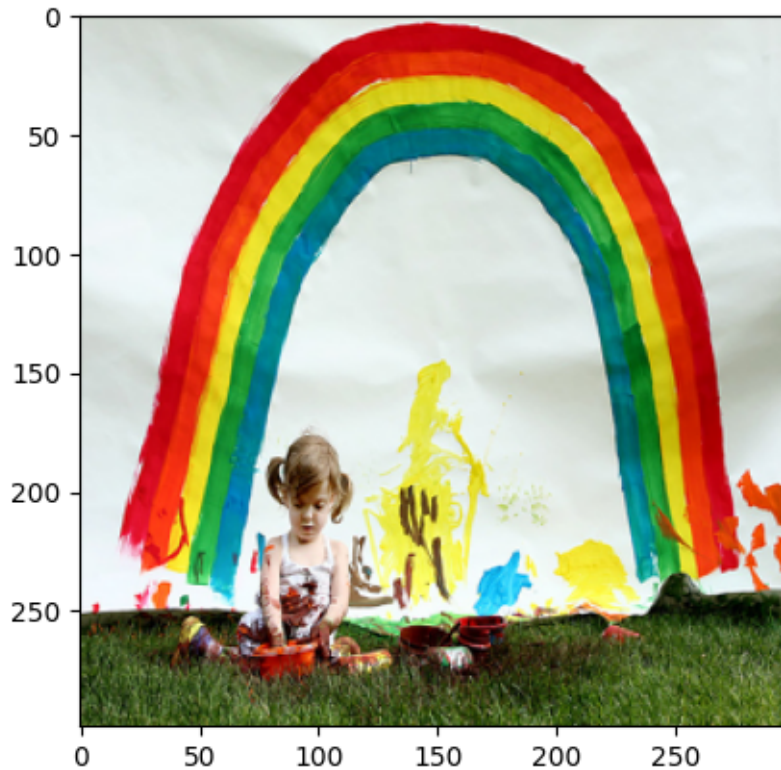
```



A girl going into a wooden building .



A black dog and a tri-colored dog playing with each other on the road .



A little girl is sitting in front of a large painted rainbow .

While this is quite interesting, before we proceed I think we need to dig into the text data more to see if we need to remove anything or if we are to continue forward.

```
[ ]: from collections import Counter
      from itertools import chain
```

```
[ ]: flat_captions = chain.from_iterable(list(captions_mapping.values()))
      w = []
      for x in flat_captions:
          w = w + x.split()

      counts = Counter(w)
      print(counts)
```

```
Counter({'<start>': 38215, '<end>': 38215, 'a': 38154, '.': 34659, 'A': 21530,
'in': 17972, 'the': 14503, 'on': 10156, 'is': 8862, 'and': 8233, 'dog': 7697,
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'brown': 2357, 'people': 2330, 'young': 2294, 'his': 2222, 'blue': 2122,
'through': 1983, 'running': 1968, 'dogs': 1943, 'playing': 1892, 'an': 1857,
```

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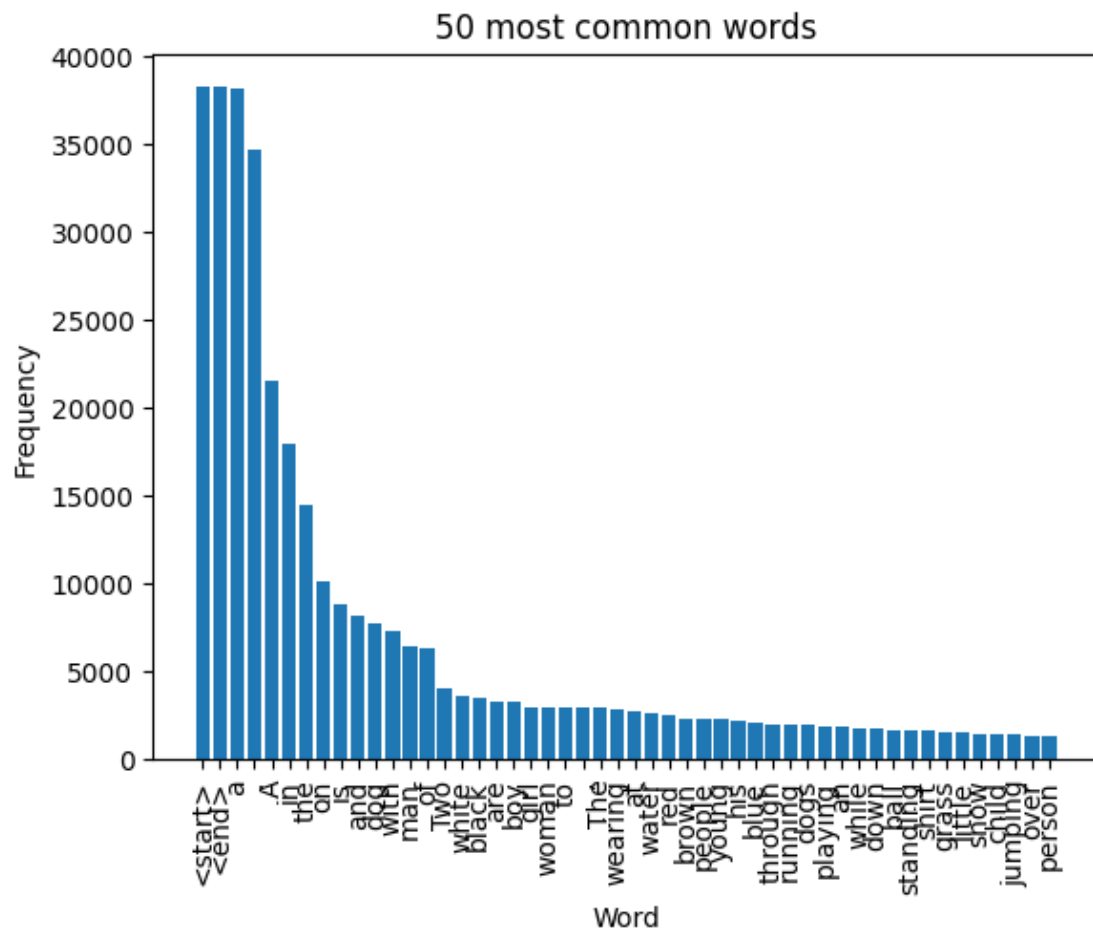
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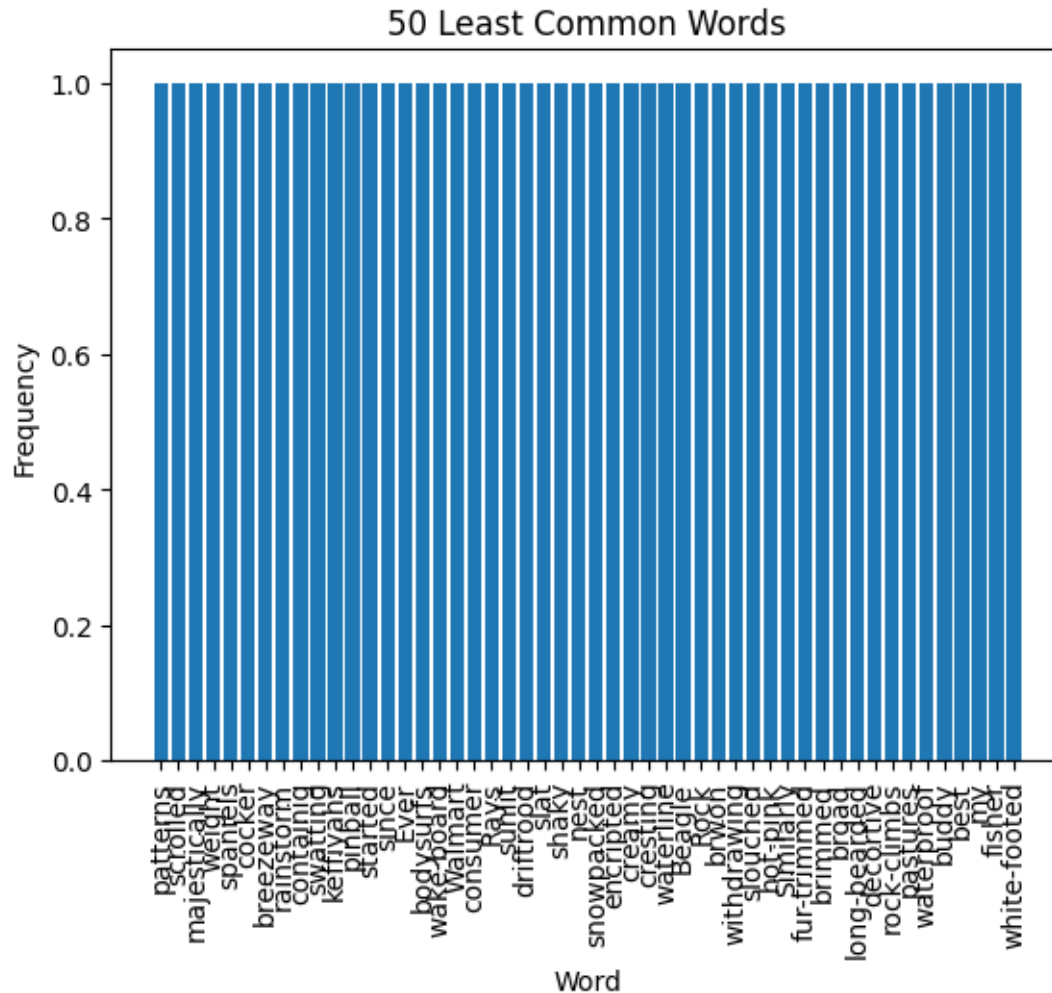
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[ ]: most_common_words = counts.most_common()[:50] # Top 50 words
least_common_words = counts.most_common()[:-51:-1]
# Create a bar chart of the word frequencies.
plt.bar(range(len(most_common_words)), [word[1] for word in most_common_words])

plt.xlabel("Word")
plt.ylabel("Frequency")
plt.title("50 most common words")
plt.xticks(np.arange(50), [word[0] for word in
    ↪most_common_words], rotation=90, fontsize=10)
plt.show()

plt.bar(range(len(least_common_words)), [word[1] for word in
    ↪least_common_words])
plt.xlabel("Word")
plt.ylabel("Frequency")
plt.title("50 Least Common Words")
plt.xticks(np.arange(50), [word[0] for word in
    ↪least_common_words], rotation=90, fontsize=10)
plt.show()
```





From these word frequency graphs we see that we need to clean the data in the most frequent graphs we have the some unwanted words and other words that wont be very valuable to training. On the least frequesnt words we see a list of words that probably dont need to be included as they only have a a single instance.

Next we will clean the text data and vectorize it in preperation for training.

```
[ ]: import tensorflow as tf
from keras.layers import TextVectorization
import re
```

```
[ ]: def custom_standardization(input_string):
    lowercase = tf.strings.lower(input_string)
    return tf.strings.regex_replace(lowercase, "[%s]" % re.escape(strip_chars),
    ↪    )
```

```

strip_chars = "!\"#$%&'()*+,-./:;<=>?@[\\]^_`{|}~"
strip_chars = strip_chars.replace("<", "")
strip_chars = strip_chars.replace(">", "")

strip_chars = "!\"#$%&'()*+,-./:;<=>?@[\\]^_`{|}~"
strip_chars = strip_chars.replace("<", "")
strip_chars = strip_chars.replace(">", "")

vocab_size = 10000
vectorization = TextVectorization(
    max_tokens=vocab_size,
    output_mode="int",
    output_sequence_length=seq_len,
    standardize=custom_standardization,
)
vectorization.adapt(text_data)

```

Data Pipeline Now that we have our data clean we can begin to prepare to train the data. To do this we will first break the data into train and validation sets then create a tensorflow dataset that reads the image from the disk and tokenizes the 5 captions.

Lets start with breaking the data into train and test sets.

```

[ ]: def train_val_split(caption_data, train_size=0.8, shuffle=True):
    """Split the captioning dataset into train and validation sets.

    Args:
        caption_data (dict): Dictionary containing the mapped caption data
        train_size (float): Fraction of all the full dataset to use as training_
↪data
        shuffle (bool): Whether to shuffle the dataset before splitting

    Returns:
        Training and validation datasets as two separated dicts
    """

    # 1. Get the list of all image names
    all_images = list(caption_data.keys())

    # 2. Shuffle if necessary
    if shuffle:
        np.random.shuffle(all_images)

    # 3. Split into training and validation sets
    train_size = int(len(caption_data) * train_size)

    training_data = {

```

```

        img_name: caption_data[img_name] for img_name in all_images[:train_size]
    }
    validation_data = {
        img_name: caption_data[img_name] for img_name in all_images[train_size:]
    }

    # 4. Return the splits
    return training_data, validation_data

# Load the dataset
captions_mapping, text_data = load_captions_data("Flickr8k.token.txt")

# Split the dataset into training and validation sets
train_data, valid_data = train_val_split(captions_mapping)
print("Number of training samples: ", len(train_data))
print("Number of validation samples: ", len(valid_data))

```

Number of training samples: 6114
 Number of validation samples: 1529

```

[ ]: batch_size = 64

autotune = tf.data.AUTOTUNE
def decode_and_resize(img_path):
    img = tf.io.read_file(img_path)
    img = tf.image.decode_jpeg(img, channels=3)
    img = tf.image.resize(img, img_size)
    img = tf.image.convert_image_dtype(img, tf.float32)
    return img

def process_input(img_path, captions):
    return decode_and_resize(img_path), vectorization(captions)

def make_dataset(images, captions):
    dataset = tf.data.Dataset.from_tensor_slices((images, captions))
    dataset = dataset.shuffle(batch_size * 8)
    dataset = dataset.map(process_input, num_parallel_calls=autotune)
    dataset = dataset.batch(batch_size).prefetch(autotune)

    return dataset

# Pass the list of images and the list of corresponding captions
train_dataset = make_dataset(list(train_data.keys()), list(train_data.values()))

```

```
valid_dataset = make_dataset(list(valid_data.keys()), list(valid_data.values()))
```

1.0.3 Modeling

The image captioning architecture consists of three models:

1. CNN for image processing
2. TransformerEncoder which creates a new representation of the CNN's output
3. TransformerDecoder that takes the TransformerEncoder and generates the caption

Because we have limited resources I am going to use google's EfficientNetB0 CNN to more accurately classify the objects in the images. EfficientNetB0 can successfully categorize objects in an image into 1000 categories. As we are just trying to caption images I believe this will give a high base line for us to then add a few more layers that will help us for the motives of this project.

```
[ ]: import keras
      from keras import layers
      from keras.applications import efficientnet
```

```
[ ]: #setting Hyperparameters
      embed_dim = 512
      ff_dim = 512
      epochs = 30

      #This helps prevent overfitting in images training
      img_aug = keras.Sequential(
          [
              layers.RandomFlip("horizontal"),
              layers.RandomRotation(0.2),
              layers.RandomContrast(0.3),
          ]
      )

      def get_cnn_model(): #uses transfer learning to start the cnn for better image_
                           ↪categorization
          base_model = efficientnet.EfficientNetB0(
              input_shape=(img_size, 3),
              include_top=False,
              weights="imagenet",
          )
          #freeze feature extractor
          base_model.trainable = False
          base_model_out = base_model.output
          base_model_out = layers.Reshape((-1, base_model_out.
          ↪shape[-1]))(base_model_out)
          cnn_model = keras.models.Model(base_model.input, base_model_out)
```

```

return cnn_model

class TransformerEncoder(layers.Layer):
    def __init__(self, embed_dim, dense_dim, num_heads, **kwargs):
        super().__init__(**kwargs)
        self.embed_dim = embed_dim
        self.dense_dim = dense_dim
        self.num_heads = num_heads
        self.attention_1 = layers.MultiHeadAttention(num_heads=num_heads,
↪key_dim=embed_dim)

        self.layernorm_1 = layers.LayerNormalization()

        self.layernorm_2 = layers.LayerNormalization()

        self.dense_1 = layers.Dense(embed_dim, activation="relu")

    def call(self, inputs, training, mask=None):
        inputs = self.layernorm_1(inputs)
        inputs = self.dense_1(inputs)

        attention_output_1 = self.attention_1(
            query=inputs,
            value=inputs,
            key=inputs,
            attention_mask=None,
            training=training,
        )
        out = self.layernorm_2(inputs + attention_output_1)
        return out

class PositionalEmbedding(layers.Layer):
    def __init__(self, sequence_length, vocab_size, embed_dim, **kwargs):
        super().__init__(**kwargs)
        self.token_embeddings = layers.Embedding(
            input_dim=vocab_size, output_dim=embed_dim
        )
        self.position_embeddings = layers.Embedding(
            input_dim=sequence_length, output_dim=embed_dim
        )
        self.sequence_length = sequence_length
        self.vocab_size = vocab_size
        self.embed_dim = embed_dim
        self.embed_scale = tf.math.sqrt(tf.cast(embed_dim, tf.float32))

```



```

def call(self, inputs):
    length = tf.shape(inputs)[-1]
    positions = tf.range(start=0, limit=length, delta=1)
    embedded_tokens = self.token_embeddings(inputs)
    embedded_tokens = embedded_tokens * self.embed_scale
    embedded_positions = self.position_embeddings(positions)
    return embedded_tokens + embedded_positions

def compute_mask(self, inputs, mask=None):
    return tf.math.not_equal(inputs, 0)

class TransformerDecoder(layers.Layer):
    def __init__(self, embed_dim, ff_dim, num_heads, **kwargs):
        super().__init__(**kwargs)
        self.embed_dim = embed_dim
        self.ff_dim = ff_dim
        self.num_heads = num_heads
        self.attention_1 = layers.MultiHeadAttention(
            num_heads=num_heads, key_dim=embed_dim, dropout=0.1
        )
        self.attention_2 = layers.MultiHeadAttention(
            num_heads=num_heads, key_dim=embed_dim, dropout=0.1
        )
        self.ffn_layer_1 = layers.Dense(ff_dim, activation="relu")
        self.ffn_layer_2 = layers.Dense(embed_dim)

        self.layernorm_1 = layers.LayerNormalization()
        self.layernorm_2 = layers.LayerNormalization()
        self.layernorm_3 = layers.LayerNormalization()

        self.embedding = PositionalEmbedding(
            embed_dim=embed_dim,
            sequence_length=seq_len,
            vocab_size=vocab_size,
        )
        self.out = layers.Dense(vocab_size, activation="softmax")

        self.dropout_1 = layers.Dropout(0.3)
        self.dropout_2 = layers.Dropout(0.5)
        self.supports_masking = True

    def call(self, inputs, encoder_outputs, training, mask=None):
        inputs = self.embedding(inputs)
        causal_mask = self.get_causal_attention_mask(inputs)

```

```

if mask is not None:
    padding_mask = tf.cast(mask[:, :, tf.newaxis], dtype=tf.int32)
    combined_mask = tf.cast(mask[:, tf.newaxis, :], dtype=tf.int32)
    combined_mask = tf.minimum(combined_mask, causal_mask)

attention_output_1 = self.attention_1(
    query=inputs,
    value=inputs,
    key=inputs,
    attention_mask=combined_mask,
    training=training,
)
out_1 = self.layernorm_1(inputs + attention_output_1)

attention_output_2 = self.attention_2(
    query=out_1,
    value=encoder_outputs,
    key=encoder_outputs,
    attention_mask=padding_mask,
    training=training,
)
out_2 = self.layernorm_2(out_1 + attention_output_2)

ffn_out = self.ffn_layer_1(out_2)
ffn_out = self.dropout_1(ffn_out, training=training)
ffn_out = self.ffn_layer_2(ffn_out)

ffn_out = self.layernorm_3(ffn_out + out_2, training=training)
ffn_out = self.dropout_2(ffn_out, training=training)
preds = self.out(ffn_out)
return preds

def get_causal_attention_mask(self, inputs):
    input_shape = tf.shape(inputs)
    batch_size, sequence_length = input_shape[0], input_shape[1]
    i = tf.range(sequence_length)[:, tf.newaxis]
    j = tf.range(sequence_length)
    mask = tf.cast(i >= j, dtype="int32")
    mask = tf.reshape(mask, (1, input_shape[1], input_shape[1]))
    mult = tf.concat(
        [
            tf.expand_dims(batch_size, -1),
            tf.constant([1, 1], dtype=tf.int32),
        ],
        axis=0,
    )
    return tf.tile(mask, mult)

```

```

class ImageCaptioning(keras.Model):
    def __init__(
        self,
        cnn_model,
        encoder,
        decoder,
        num_captions_per_image=5,
        image_aug=None,):

        super().__init__()
        self.cnn_model = cnn_model
        self.encoder = encoder
        self.decoder = decoder
        self.loss_tracker = keras.metrics.Mean(name="loss")
        self.acc_tracker = keras.metrics.Mean(name="accuracy")
        self.num_captions_per_image = num_captions_per_image
        self.image_aug = image_aug

    def calculate_loss(self, y_true, y_pred, mask):
        loss = self.loss(y_true, y_pred)
        mask = tf.cast(mask, dtype=loss.dtype)
        loss *= mask
        return tf.reduce_sum(loss) / tf.reduce_sum(mask)

    def calculate_accuracy(self, y_true, y_pred, mask):
        accuracy = tf.equal(y_true, tf.argmax(y_pred, axis=2))
        accuracy = tf.math.logical_and(mask, accuracy)
        accuracy = tf.cast(accuracy, dtype=tf.float32)
        mask = tf.cast(mask, dtype=tf.float32)
        return tf.reduce_sum(accuracy) / tf.reduce_sum(mask)

    def _compute_caption_loss_and_acc(self, img_embed, batch_seq,
    ↪training=True):
        encoder_out = self.encoder(img_embed, training=training)
        batch_seq_inp = batch_seq[:, :-1]
        batch_seq_true = batch_seq[:, 1:]
        mask = tf.math.not_equal(batch_seq_true, 0)
        batch_seq_pred = self.decoder(
            batch_seq_inp, encoder_out, training=training, mask=mask
        )
        loss = self.calculate_loss(batch_seq_true, batch_seq_pred, mask)
        acc = self.calculate_accuracy(batch_seq_true, batch_seq_pred, mask)
        return loss, acc

```

```

def train_step(self, batch_data):
    batch_img, batch_seq = batch_data
    batch_loss = 0
    batch_acc = 0

    if self.image_aug:
        batch_img = self.image_aug(batch_img)

    img_embed = self.cnn_model(batch_img)

    # pass along captions and calculate metrics
    for i in range(self.num_captions_per_image):
        with tf.GradientTape() as tape:
            loss, acc = self._compute_caption_loss_and_acc(
                img_embed, batch_seq[:, i, :], training=True
            )

            batch_loss = batch_loss + loss
            batch_acc = batch_acc + acc

        train_vars = (
            self.encoder.trainable_variables + self.decoder.
↪ trainable_variables
        )

        grads = tape.gradient(loss, train_vars)

        self.optimizer.apply_gradients(zip(grads, train_vars))

    batch_acc /= float(self.num_captions_per_image)
    self.loss_tracker.update_state(batch_loss)
    self.acc_tracker.update_state(batch_acc)

    # Return metrics
    return {
        "loss": self.loss_tracker.result(),
        "acc": self.acc_tracker.result(),
    }

def test_step(self, batch_data):
    batch_img, batch_seq = batch_data
    batch_loss = 0
    batch_acc = 0

```

```

img_embed = self.cnn_model(batch_img)

# pass captions and calculate metrics
for i in range(self.num_captions_per_image):
    loss, acc = self._compute_caption_loss_and_acc(
        img_embed, batch_seq[:, i, :], training=False
    )

    batch_loss = batch_loss + loss
    batch_acc = batch_acc + acc

batch_acc /= float(self.num_captions_per_image)

self.loss_tracker.update_state(batch_loss)
self.acc_tracker.update_state(batch_acc)

return {
    "loss": self.loss_tracker.result(),
    "acc": self.acc_tracker.result(),
}

@property
def metrics(self):
    # We need to list our metrics here so the `reset_states()` can be
    # called automatically.
    return [self.loss_tracker, self.acc_tracker]

cnn_model = get_cnn_model()
encoder = TransformerEncoder(embed_dim=embed_dim, dense_dim=ff_dim, num_heads=1)
decoder = TransformerDecoder(embed_dim=embed_dim, ff_dim=ff_dim, num_heads=2)
caption_model = ImageCaptioning(
    cnn_model=cnn_model,
    encoder=encoder,
    decoder=decoder,
    image_aug=img_aug,
)

```

Model Training

```

[ ]: # Define the loss function
cross_entropy = keras.losses.SparseCategoricalCrossentropy(
    from_logits=False,
    reduction='none',
)

```

```

# EarlyStopping criteria
early_stopping = keras.callbacks.EarlyStopping(patience=3,
↪restore_best_weights=True)

# Compile the model
caption_model.compile(optimizer=keras.optimizers.Adam(),
↪loss=cross_entropy,metrics=['accuracy',tf.keras.metrics.Recall(), tf.keras.
↪metrics.AUC()])

# Fit the model
caption_model_hist = caption_model.fit(
    train_dataset,
    epochs=epochs,
    validation_data=valid_dataset,
    callbacks=[early_stopping],
)

```

```

Epoch 1/30
96/96 [=====] - 97s 800ms/step - loss: 13.7037 - acc:
0.4311 - val_loss: 15.9642 - val_acc: 0.3949
Epoch 2/30
96/96 [=====] - 70s 730ms/step - loss: 13.2971 - acc:
0.4352 - val_loss: 15.9122 - val_acc: 0.3985
Epoch 3/30
96/96 [=====] - 69s 720ms/step - loss: 12.9536 - acc:
0.4391 - val_loss: 15.9563 - val_acc: 0.3976
Epoch 4/30
96/96 [=====] - 70s 727ms/step - loss: 12.6573 - acc:
0.4425 - val_loss: 16.0189 - val_acc: 0.3985
Epoch 5/30
96/96 [=====] - 68s 712ms/step - loss: 12.4793 - acc:
0.4416 - val_loss: 15.9998 - val_acc: 0.3980

```

1.0.4 Results

Lets take a look at the results of the training. Even though it wont be super telling lets look at the accuracy and loss.

```

[ ]: def plot_model_acc(model_history):
    acc = model_history.history['acc']
    val_acc = model_history.history['val_acc']
    loss = model_history.history['loss']
    val_loss = model_history.history['val_loss']

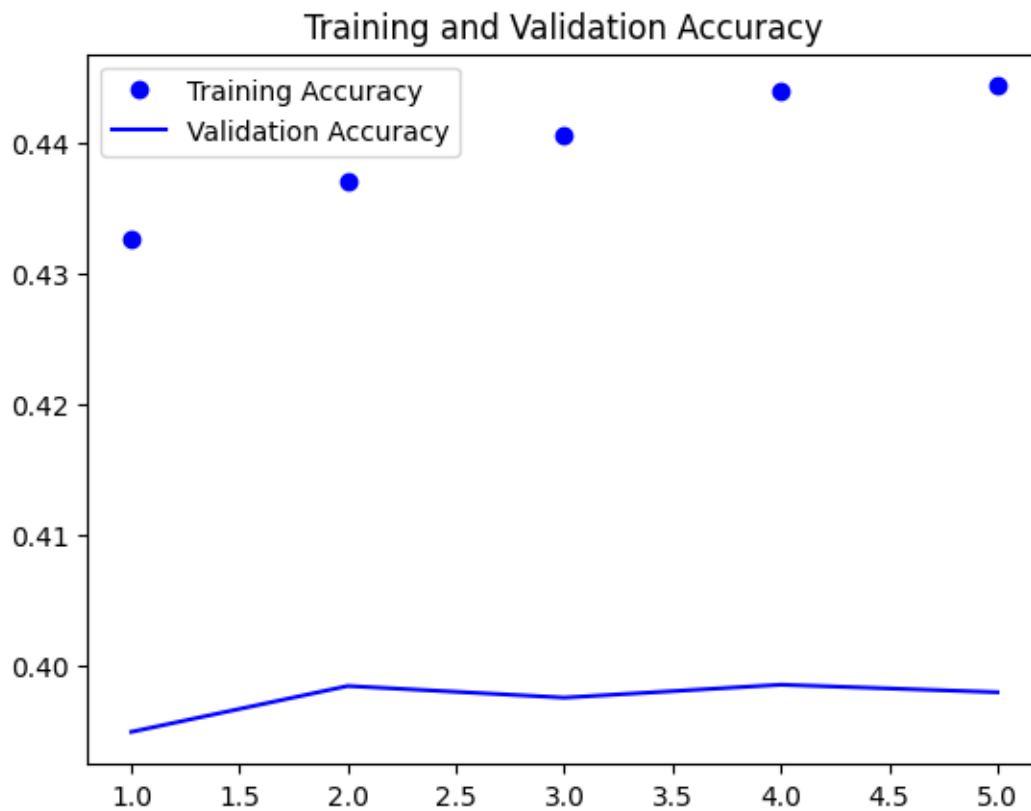
    epochs = range(1, len(acc) + 1)

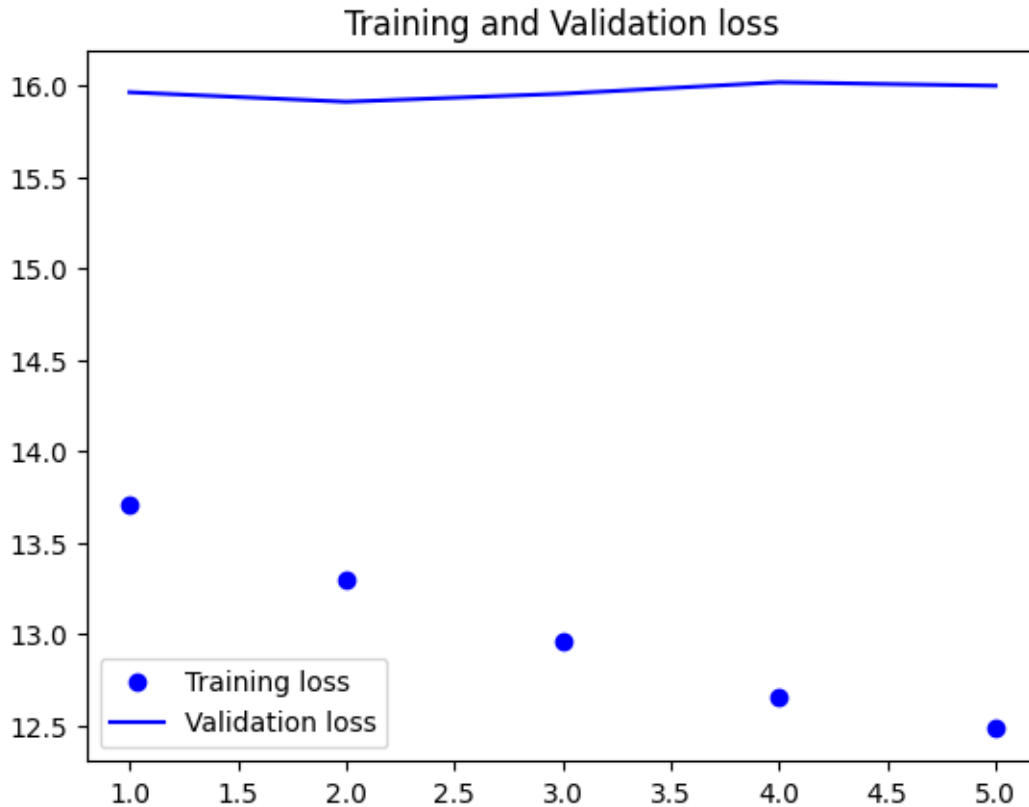
```

```
plt.plot(epochs, acc, 'bo', label='Training Accuracy')
plt.plot(epochs, val_acc, 'b', label='Validation Accuracy')
plt.title('Training and Validation Accuracy')
plt.legend()
plt.figure()
```

```
plt.plot(epochs, loss, 'bo', label='Training loss')
plt.plot(epochs, val_loss, 'b', label='Validation loss')
plt.title('Training and Validation loss')
plt.legend()
plt.figure()
```

```
plot_model_acc(caption_model_hist)
```





<Figure size 640x480 with 0 Axes>

The accuracy and loss calculated can be a little misleading on how well this model is performing. It shows how many words are similar from the generated captions to the given captions. While that does well for training, it's not the best way to evaluate if the captions are good.

Let's take a look at the images and some generated captions.

```
[ ]: vocab = vectorization.get_vocabulary()
      index_lookup = dict(zip(range(len(vocab)), vocab))
      max_decoded_sentence_length = seq_len - 1
      valid_images = list(valid_data.keys())

      def generate_caption_rand():

          sample_img = np.random.choice(valid_images)

          sample_img = decode_and_resize(sample_img)
          img = sample_img.numpy().clip(0, 255).astype(np.uint8)
```



```

plt.imshow(img)
plt.show()

img = tf.expand_dims(sample_img, 0)
img = caption_model.cnn_model(img)

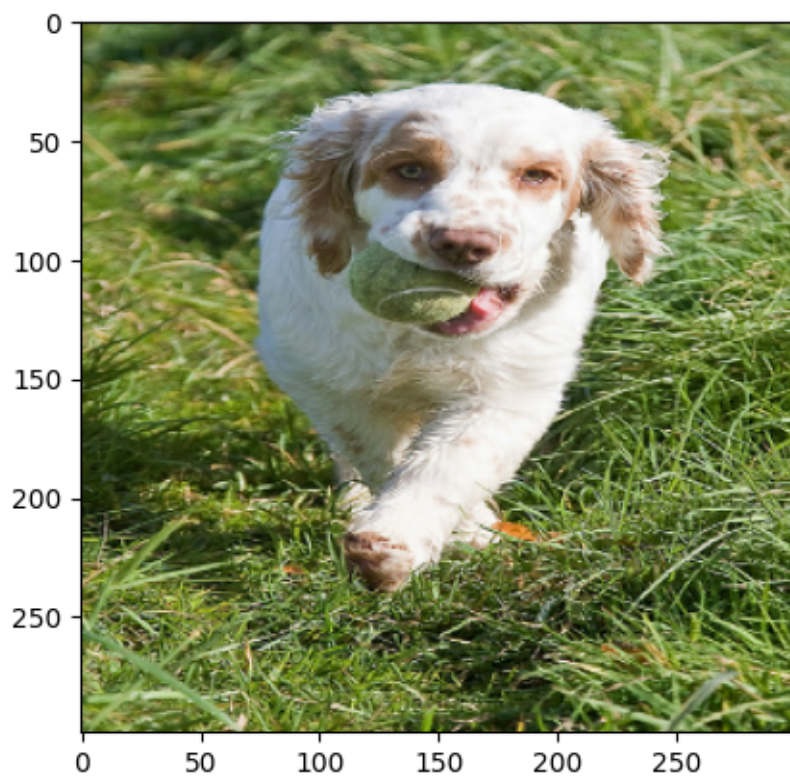
encoded_img = caption_model.encoder(img, training=False)

decoded_caption = "<start> "
for i in range(max_decoded_sentence_length):
    tokenized_caption = vectorization([decoded_caption])[:, :-1]
    mask = tf.math.not_equal(tokenized_caption, 0)
    predictions = caption_model.decoder(
        tokenized_caption, encoded_img, training=False, mask=mask
    )
    sampled_token_index = np.argmax(predictions[0, i, :])
    sampled_token = index_lookup[sampled_token_index]
    if sampled_token == "<end>":
        break
    decoded_caption += " " + sampled_token

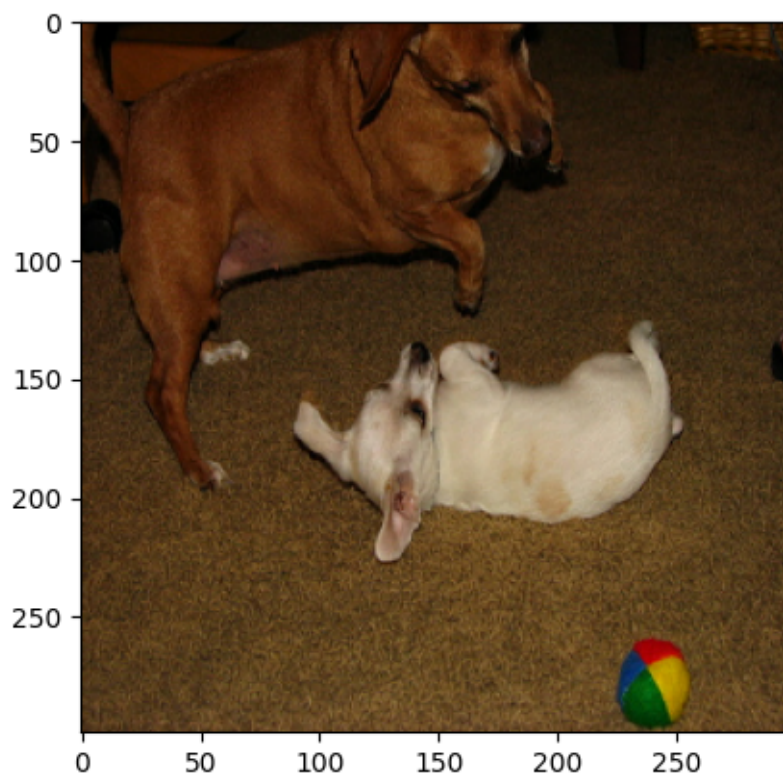
decoded_caption = decoded_caption.replace("<start> ", "")
decoded_caption = decoded_caption.replace(" <end>", "").strip()
print("Predicted Caption: ", decoded_caption)

generate_caption_rand()
generate_caption_rand()
generate_caption_rand()

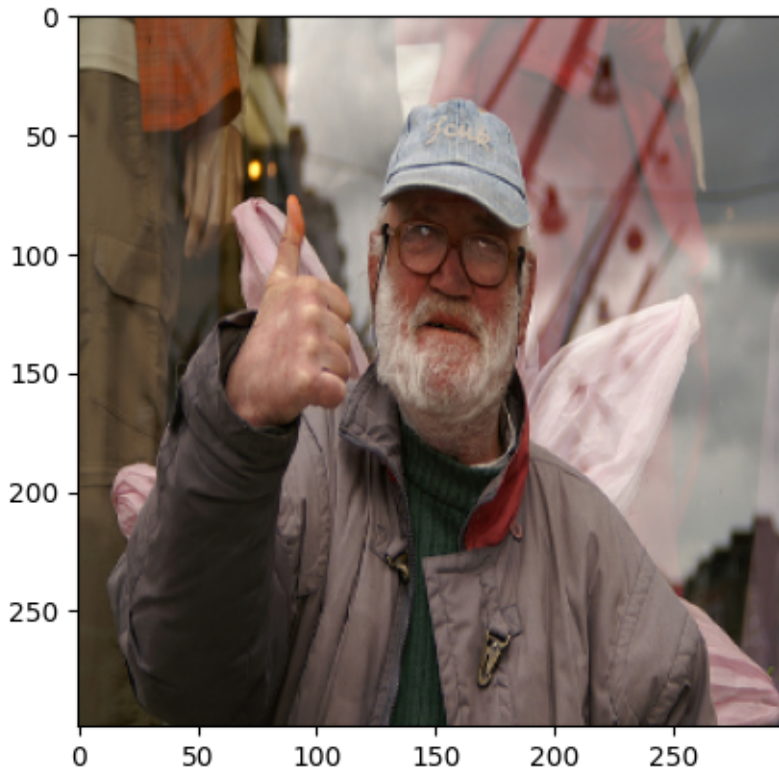
```



Predicted Caption: a white dog is running through the grass



Predicted Caption: a dog is jumping to catch a ball



Predicted Caption: a man wearing a hat and sunglasses is holding a sign

Seeing these anecdotal results is great but doesn't really tell us how well the model is performing beyond anecdotal evidence. We should look at ways we can quantify these results. For this I will use Bilingual evaluation understudy (BLEU) which is a way we can quantify captions accuracy against human created captions. BLEU is calculated by looking at chunks of similar words, typically between 1 and 4. And then uses a brevity penalty for captions that are too short. This has shown to be a very helpful way to gauge accuracy of language translations and in how humans interpret information then describe it verbally. The Natural Language Toolkit (NLTK) gives us a very convenient function to help us evaluate models this way.

```
[ ]: from nltk.translate.bleu_score import sentence_bleu
     from nltk.translate.bleu_score import corpus_bleu
```

```
[ ]: # start with generating captions for every validation image
bleu_hyp = []
bleu_ref = []
for i in valid_images:
    n = i
    i = decode_and_resize(i)
    img = i.numpy().clip(0, 255).astype(np.uint8)
```

```

# Pass the image to the CNN
img = tf.expand_dims(i, 0)
img = caption_model.cnn_model(img)

# Pass the image features to the Transformer encoder
encoded_img = caption_model.encoder(img, training=False)

# Generate the caption using the Transformer decoder
decoded_caption = "<start> "
for i in range(max_decoded_sentence_length):
    tokenized_caption = vectorization([decoded_caption])[:, :-1]
    mask = tf.math.not_equal(tokenized_caption, 0)
    predictions = caption_model.decoder(
        tokenized_caption, encoded_img, training=False, mask=mask
    )
    sampled_token_index = np.argmax(predictions[0, i, :])
    sampled_token = index_lookup[sampled_token_index]
    if sampled_token == "<end>":
        break
    decoded_caption += " " + sampled_token

decoded_caption = decoded_caption.replace("<start> ", "")
decoded_caption = decoded_caption.replace(" <end>", "").strip()
bleu_hyp.append(decoded_caption)
l = []
for r in valid_data[n]:
    s = r.replace("<start> ", "").replace(" <end>", "").strip()
    l.append(s)
bleu_ref.append(l)

corpus_bleu(bleu_ref, bleu_hyp)

```

[]: 0.5978674880245358

BLEU scores use standard scoring where higher scoring is better. After some tweeking of the modeling I settled on a score of .597 Which is a very good score and I am very happy with the preformance of this model. I had to play arround with the optimiser, learning rate and dropout values to acheive this mark. I also saw a few other try different teqniues with this data set and were all below .50. I think that with more layers and more powerfull computing there is a chance that I could acheive even higher accuracy.

1.1 Conclusion

In this project I ccreated a model that fairly sucessfully generated captions for the images and we evaluated the results via a BLEU model that is fairly standard in the visual-text ai space. This was a massive success for me and I am very encouraged by the progress I made.