projet3

October 27, 2025

0.1 Import des modules et dépendances

[1]:
```
from rnn_model import SimpleRNN
from data_processing import *
from data_processing import load_file
```

0.1.1 Test rapide du chargement et du tokenizer

On vérifie que : 1. Le fichier est bien chargé. 2. Les phrases sont correctement tokenisées. 3. Les émotions associées sont cohérentes.

[2]:
```
text, emotion = load_file("./dataset/train.txt")

print(text[2])
print(tokenizer(text[2]))
print(emotion[2])
```

```
im grabbing a minute to post i feel greedy wrong
['im', 'grabbing', 'a', 'minute', 'to', 'post', 'i', 'feel', 'greedy', 'wrong']
anger
```

0.1.2 Vérification du générateur de tokens

On teste la fonction `yield_tokens()` pour s'assurer qu'elle parcourt bien tout le corpus et renvoie une liste plate de tous les mots (tokens).
On limite l'affichage pour ne pas surcharger la sortie.

[3]:
```
# Test du générateur de tokens
lst = list(yield_tokens(text))
print(lst[:50])  # affiche seulement les 50 premiers tokens
print("Total tokens:", len(lst))
```

```
['i', 'didnt', 'feel', 'humiliated', 'i', 'can', 'go', 'from', 'feeling', 'so',
'hopeless', 'to', 'so', 'damned', 'hopeful', 'just', 'from', 'being', 'around',
'someone', 'who', 'cares', 'and', 'is', 'awake', 'im', 'grabbing', 'a',
'minute', 'to', 'post', 'i', 'feel', 'greedy', 'wrong', 'i', 'am', 'ever',
'feeling', 'nostalgic', 'about', 'the', 'fireplace', 'i', 'will', 'know',
'that', 'it', 'is', 'still']
Total tokens: 306661
```

0.1.3 Construction du vocabulaire

On crée un vocabulaire avec `build_vocab_from_iterator()` :
- chaque mot unique reçoit un identifiant entier,
- les tokens spéciaux `<pad>` et `<unk>` sont ajoutés,
- et on vérifie que certains mots courants ont bien une valeur associée.

[4]:
```
## Associer à chaque mot une valeur unique (entier positif) **pas de doublon**
vocab = build_vocab_from_iterator(lst, specials=["<pad>", "<unk>"])
print(len(vocab))
print(vocab["i"])
print(vocab["didnt"])
print(vocab["feel"])
```

```
15214
2
3
4
```

0.1.4 Vocabulaire des émotions

On construit maintenant le vocabulaire des **classes d'émotions**,
de la même manière que pour les mots du texte. Chaque émotion correspond à un identifiant unique.

[5]:
```
# Faire pareil avec les émotions, qui représentent les classes
classes = build_vocab_from_iterator(yield_tokens(emotion))
print(len(classes))
print(classes["anger"])
```

```
6
1
```

0.1.5 Test — Encodage d'une phrase en entiers

[6]:
```
# Coder une phrase ## Représenter une phrase comme une suite de valeurs
print(text[1])
codage_entier_phrase = vocab(tokenizer(text[1]))
print(codage_entier_phrase)
```

```
i can go from feeling so hopeless to so damned hopeful just from being around
someone who cares and is awake
[2, 6, 7, 8, 9, 10, 11, 12, 10, 13, 14, 15, 8, 16, 17, 18, 19, 20, 21, 22, 23]
```

0.1.6 Représenter chaque phrase comme un tenseur d'entiers

À partir de cette étape, on commence à utiliser **PyTorch** pour manipuler les données. ### Représenter chaque phrase sous forme one-hot
Chaque mot est transformé en un vecteur binaire où une seule position vaut 1.

Charger tout le dataset en one-hot peut être coûteux en mémoire — on préfère souvent le faire **par batch** avec un `DataLoader`.

[7]:
```python
## Représenter chaque phrase comme un tensor d'entiers **seulement à partir de cette étape, on utiliser la librairie pytorch**
from torch import tensor   # Import minimal autorisé

tensor_entier = tensor(codage_entier_phrase)
print(tensor_entier)
```

```
tensor([ 2,  6,  7,  8,  9, 10, 11, 12, 10, 13, 14, 15,  8, 16, 17, 18, 19, 20,
        21, 22, 23])
```

[8]:
```python
## Représenter chaque phrase comme un tensor one hot **attention, il peut être difficile de charger en mémoire l'ensemble du dataset sous la forme on-hot, privilégier si besoin la génération one-hot par batch, en utilisant un Dataloader**
tensor_one_hot = one_hot(tensor_entier, num_classes=len(vocab))
print(tensor_one_hot[:10])
```

```
[[0, 0, 1, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
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0, 0, 0, 0, 0]]
```

```
[ ]:
```

RNN Réseau

0.2 Entrée (input) : mot par mot, la première dimension correspond à la taille du batch - Dimension : (batch_size, vocab_size) ## Sortie (output) : valeurs de classes prédites, la première dimension correspond à la taille du batch - Dimension : (batch_size, class_size)

0.2.1 Étape 1 : Tester le réseau avec un mot unique (batch_size = 1, sans récurrence)

[9]:
```
import torch
from rnn_model import SimpleRNN
from data_processing import build_vocab_from_iterator, tokenizer, one_hot
from torch.utils.data import DataLoader
from dataset_nlp import EmotionDataset  # ton fichier avec la classe ci-dessus
```

[10]:
```
# Exemple de vocabulaire
vocab = build_vocab_from_iterator(["hello", "world", "<pad>", "<unk>"])
vocab_size = len(vocab)

# Initialiser le modèle
emb_size = 128
hidden_size = 256
class_size = 5  # Exemple : 5 classes d'émotions
rnn = SimpleRNN(vocab_size, emb_size, hidden_size, class_size)

# Tester avec un mot unique
word = "hello"
word_idx = vocab([word])[0]
one_hot_word = one_hot([word_idx], num_classes=vocab_size)[0]  # [vocab_size]
one_hot_tensor = torch.tensor(one_hot_word, dtype=torch.float32).unsqueeze(0) ␣
↪# [1, vocab_size]

# Initialiser l'état caché
hidden = rnn.init_hidden(batch_size=1)

# Passer le mot dans le réseau
output, hidden = rnn(one_hot_tensor, hidden)
print("Output:", output)
print("Hidden state:", hidden)
```

```
Output: tensor([[-1.3571, -1.6602, -1.8526, -1.5256, -1.7250]],
       grad_fn=<LogSoftmaxBackward0>)
Hidden state: tensor([[-1.0035e-01, -1.3253e-01,  2.0601e-02,  1.7054e-01,
-1.4101e-01,
         -2.3113e-01, -2.2976e-01, -3.1047e-02, -1.5642e-01,  2.3424e-01,
         -1.1943e-01, -2.7248e-01,  1.4614e-01,  1.0315e-01, -1.2543e-01,
         -4.3361e-02,  8.6662e-03,  5.0226e-02, -1.7501e-01, -9.7438e-02,
          7.0754e-02, -1.1957e-01, -1.2396e-01,  9.8346e-02,  7.3166e-02,
         -6.5795e-02, -2.6078e-02, -1.5470e-02, -3.1892e-02, -2.6138e-01,
         -1.1896e-01,  1.1426e-01,  7.6048e-02,  8.2866e-02,  1.1485e-01,
```

```
-2.7786e-01,  1.5225e-01,  2.1574e-02, -1.1005e-01,  3.0211e-02,
-1.2746e-01,  6.2493e-03,  4.2803e-02, -9.3021e-02,  1.8730e-01,
 1.2200e-01, -8.2056e-02,  2.4534e-02,  1.9807e-02,  1.7239e-01,
-6.2639e-02,  8.0631e-02,  1.8794e-01, -2.5721e-02, -4.8843e-02,
 6.7863e-02,  5.6038e-02, -2.1934e-01, -1.8591e-01, -1.0159e-02,
-9.9305e-02,  1.2165e-02,  3.8223e-02,  8.9705e-02,  9.9681e-02,
 1.6475e-01,  7.3607e-04, -1.5038e-01,  2.7419e-01, -1.9308e-01,
 1.4113e-01,  3.8444e-02, -7.5039e-02, -9.9778e-02, -7.2572e-02,
 9.0131e-02, -3.8083e-02,  4.6021e-02, -1.6385e-02,  7.5569e-02,
-6.6086e-02, -1.6880e-01,  1.6783e-01,  3.0661e-02, -3.7156e-02,
 1.0685e-01,  1.4255e-02, -1.1483e-01, -7.4305e-02, -4.9115e-02,
 1.0006e-01,  5.8197e-02,  1.0199e-03,  2.1699e-01, -7.8453e-02,
-1.5973e-01,  1.2058e-01, -3.6325e-02, -1.3857e-01,  3.9181e-02,
 1.7146e-02,  2.4709e-02,  7.0732e-02,  7.1236e-03, -1.1617e-01,
-5.2253e-02,  7.3232e-02,  6.8820e-02, -1.1296e-02, -1.1066e-01,
 1.7774e-02,  5.4810e-02, -7.0445e-02, -5.0128e-02,  3.1739e-02,
 3.7571e-02, -9.3538e-02,  1.3448e-01,  1.3263e-01,  2.1794e-01,
 9.8452e-02,  2.8479e-02,  1.4109e-01, -5.5224e-02,  8.0524e-02,
 1.3176e-01,  1.0172e-01,  1.3684e-01, -2.0696e-01, -2.6845e-01,
 7.3260e-02,  5.9941e-02, -1.1105e-01,  1.7752e-01,  1.1003e-01,
 2.0858e-01, -1.9872e-01, -5.1542e-02, -8.6692e-02, -3.4945e-02,
-5.9264e-02,  1.7509e-01, -1.6023e-01, -2.0798e-01,  1.4035e-01,
 7.8178e-02,  1.3019e-02, -1.0506e-01, -4.6334e-03,  2.8120e-02,
 8.3576e-02, -7.5941e-02, -5.1129e-02,  9.5578e-02, -2.1194e-01,
 1.9527e-01, -2.3170e-01, -9.8790e-02,  7.5361e-02,  1.8795e-01,
-5.2247e-02, -9.6844e-02, -2.3368e-02, -1.2786e-01, -1.4081e-01,
-1.3003e-01,  6.6973e-02, -7.3681e-02,  7.0800e-02, -2.7557e-02,
-1.4604e-01, -6.5418e-02,  6.7589e-02, -1.4806e-01,  1.6395e-01,
 1.4862e-01, -7.5275e-02,  1.2271e-01,  1.6938e-01, -1.3710e-01,
-3.5635e-02,  1.1402e-01, -9.0846e-03, -4.7396e-02,  7.3813e-04,
-3.7465e-02,  1.2697e-01, -4.3839e-03,  1.8618e-02, -9.2187e-02,
 1.2785e-01,  2.1671e-01, -3.6385e-02, -1.1112e-01,  4.0537e-03,
 1.3745e-01, -2.0611e-02, -1.8721e-01, -2.3065e-01,  4.0062e-02,
 3.7346e-02,  9.1147e-02,  1.1937e-01, -9.5108e-02, -1.5269e-01,
-1.3399e-01, -4.4408e-02, -4.0738e-02,  2.9799e-03,  5.5307e-02,
 6.0941e-02, -2.1911e-01, -2.1869e-01,  3.3204e-02, -5.2491e-02,
-1.9787e-02, -2.1044e-01,  3.8503e-02, -5.2044e-02, -2.4632e-01,
 1.4593e-01,  2.6422e-02,  7.9448e-02, -1.1152e-01, -1.6377e-01,
 4.2179e-02,  1.5102e-01,  2.0483e-02,  4.1200e-02, -1.8713e-01,
-1.3546e-02, -1.0633e-02,  1.9310e-01, -1.1938e-02, -2.6612e-01,
 5.8024e-02, -2.3438e-01,  2.5993e-04,  8.6584e-02,  4.4861e-02,
-1.1374e-01, -1.1029e-01, -5.3887e-02,  1.7535e-01,  1.4143e-01,
 1.0560e-01, -7.2538e-02,  1.5635e-01, -7.7503e-02, -1.0670e-01,
-6.5537e-02, -1.4012e-01, -3.1854e-03,  2.1980e-02,  6.2597e-02,
-2.0562e-01]], grad_fn=<TanhBackward0>)
```

0.2.2 Étape 2 : Tester avec la récurrence (ajout de chaque mot)

[14]:
```
# --- 1. Créer un vocabulaire simple ---
vocab = build_vocab_from_iterator(["hello", "world", "<pad>", "<unk>"])
vocab_size = len(vocab)

# --- 2. Initialiser le modèle ---
emb_size = 128
hidden_size = 256
class_size = 5  # par exemple : 5 émotions
rnn = SimpleRNN(vocab_size, emb_size, hidden_size, class_size)

# --- 3. Exemple de phrase ---
sentence = ["hello", "roua"]
indices = vocab(sentence)  # -> [index_hello, index_world]

# --- 4. Encoder chaque mot en one-hot (en utilisant ta fonction) ---
one_hot_vectors = one_hot(indices, num_classes=vocab_size)

# --- 5. Initialiser l'état caché ---
hidden = rnn.init_hidden(batch_size=1)

# --- 6. Passer les mots un par un (récurrence) ---
for i, vec in enumerate(one_hot_vectors):
    word_tensor = torch.tensor(vec, dtype=torch.float32).unsqueeze(0)  # [1,␣
 ↪vocab_size]
    output, hidden = rnn(word_tensor, hidden)
    print(f"Step {i+1} | Word ID: {indices[i]} | Output: {output}")

print("\nFinal hidden state:", hidden)
```

```
Step 1 | Word ID: 0 | Output: tensor([[-1.6172, -1.4896, -1.6752, -1.7067,
-1.5734]],
       grad_fn=<LogSoftmaxBackward0>)
Step 2 | Word ID: 3 | Output: tensor([[-1.6828, -1.4824, -1.6425, -1.5780,
-1.6758]],
       grad_fn=<LogSoftmaxBackward0>)

Final hidden state: tensor([[ 8.2195e-02, -2.3711e-01, -1.4122e-01,  1.1348e-01,
-5.0683e-02,
         -1.9446e-01,  1.3475e-01, -1.2273e-01,  4.5906e-02, -5.5017e-02,
         -4.6746e-02, -1.9322e-01,  1.0754e-01, -8.7856e-02, -1.8809e-01,
         -4.2591e-02, -4.5787e-02, -6.4169e-02, -1.8305e-01,  6.9305e-03,
          1.9881e-01, -1.3570e-01, -1.4608e-01, -3.6005e-02, -1.4725e-01,
         -2.8959e-02,  2.5060e-01, -4.6009e-02,  6.0508e-02, -3.7236e-02,
          1.4066e-02, -1.9708e-01,  1.3228e-01, -3.2625e-03,  3.9620e-02,
         -1.5147e-01,  1.5441e-01, -5.6318e-02, -4.8049e-02, -6.4424e-02,
         -1.3384e-01, -1.4552e-01,  1.8096e-01,  1.6854e-01,  5.8884e-02,
```

```
 1.1151e-01, -4.9366e-02,  1.0255e-01,  6.7700e-02,  3.1324e-01,
 1.6927e-01, -2.1002e-02,  1.9175e-01,  1.9716e-01,  1.3226e-01,
 1.6448e-01, -2.6363e-02,  4.1800e-02, -5.3125e-03, -7.9147e-02,
-3.9565e-02,  2.0709e-01,  6.7767e-02,  6.7057e-02, -2.3268e-01,
 1.1310e-01,  9.2988e-02, -3.3184e-01,  1.1781e-01,  6.9826e-03,
 3.0962e-01,  7.9114e-02, -2.2202e-01, -8.4304e-03, -1.6811e-01,
 2.9946e-03, -1.8158e-01, -1.9220e-01, -7.9208e-02,  1.4480e-02,
-2.7294e-01,  7.0503e-02,  8.0594e-02, -1.5268e-01, -9.1313e-03,
 4.1393e-02,  2.9102e-01,  2.1818e-01, -5.1811e-02, -1.0788e-02,
-1.7308e-01,  4.0697e-02,  1.0706e-01,  1.9726e-01, -2.3403e-01,
-7.0521e-02,  1.4754e-01, -1.2139e-01,  3.6096e-01,  1.6519e-01,
-7.4117e-02,  1.5878e-03,  1.0951e-01, -1.3556e-01, -2.8668e-01,
 1.1417e-01,  6.9243e-02, -7.4227e-02, -6.1268e-02, -6.1870e-02,
-3.5543e-01, -5.9122e-02, -1.1109e-01, -6.4636e-02, -1.2059e-01,
 2.9009e-01,  1.6195e-01,  8.6600e-03,  7.4471e-02, -4.0417e-02,
 1.3729e-01,  3.7715e-02,  6.6088e-02,  7.9698e-02,  2.2217e-01,
 4.6145e-02,  5.3264e-02,  2.8850e-02, -2.7228e-01,  2.5493e-01,
-8.0775e-02, -2.1848e-01, -1.5226e-01, -9.6512e-02,  7.1429e-02,
-1.2123e-01, -1.7072e-02, -1.5918e-01, -1.3743e-01,  3.6923e-01,
 2.0207e-01, -1.7557e-01, -2.0467e-01,  1.9471e-01, -5.1946e-03,
 1.0098e-01,  9.6954e-03,  1.1310e-01, -1.7527e-01, -9.5537e-02,
 2.1855e-01,  9.5689e-02, -5.9635e-02,  6.1443e-02,  1.3595e-01,
-8.0644e-02, -2.1573e-01,  4.6470e-02, -1.3586e-01,  7.4048e-02,
-4.2888e-02,  2.0872e-01,  1.1514e-02,  4.7596e-02, -2.9755e-01,
-6.6916e-02,  1.7111e-01, -1.1378e-01, -8.1982e-02,  1.7245e-01,
 1.4705e-02,  1.7429e-01,  1.0439e-01, -1.3874e-01,  3.0701e-01,
-3.8905e-03,  4.2782e-02, -7.2560e-02, -1.5142e-01,  1.7251e-01,
 1.0591e-01,  1.1676e-01,  7.6737e-02, -1.9903e-01,  1.6619e-01,
 8.0159e-02,  1.1260e-01, -4.1150e-01, -4.2198e-01,  2.2584e-02,
 6.0089e-02,  1.0475e-01, -1.1108e-01,  9.7691e-02, -2.2608e-01,
 1.4698e-01,  3.7075e-02, -1.9827e-03,  4.0134e-02,  8.2940e-02,
-1.8627e-01,  3.0821e-02,  1.1510e-01,  1.3940e-01,  1.2892e-01,
 3.2928e-02,  6.4728e-02,  9.2885e-02, -4.7629e-02,  5.0806e-02,
 1.4518e-01,  2.4662e-01,  1.3465e-01, -4.6843e-02, -5.4671e-02,
 5.6112e-02, -5.2758e-03,  5.3735e-02, -1.4860e-01, -1.9234e-01,
 6.8454e-02,  1.0282e-01, -4.2927e-01, -7.6621e-02, -1.9427e-01,
 8.8800e-02, -3.9533e-03, -2.8186e-01, -2.2814e-01, -2.8922e-01,
-7.8973e-02,  1.0183e-01,  1.6025e-01, -2.6884e-04,  6.8160e-02,
 1.6013e-01, -1.7194e-02,  1.5115e-02,  1.9099e-01,  2.2653e-01,
-1.1130e-01,  1.8678e-01, -4.1655e-02, -6.5554e-02,  4.2916e-02,
-6.2751e-02,  7.5050e-02,  1.0198e-01,  1.7427e-02,  1.6215e-03,
 2.2831e-02, -8.1368e-02, -4.2982e-02, -1.4738e-01, -4.5801e-02,
 2.3623e-01]], grad_fn=<TanhBackward0>)
```

0.2.3 Étape 3 : Tester avec un batch plus grand (utiliser un DataLoader)

[12]:
```
# --- 1. Charger les données ---
text, emotion = load_file("./dataset/train.txt")

# --- 2. Construire les vocabulaires ---
vocab = build_vocab_from_iterator(yield_tokens(text), specials=["<pad>",␣
 ↪"<unk>"])
classes = build_vocab_from_iterator(yield_tokens(emotion))

# --- 3. Créer le dataset et le DataLoader ---
dataset = EmotionDataset(text, emotion, vocab, classes, max_len=20)
loader = DataLoader(dataset, batch_size=8, shuffle=True)  # batch de 8 phrases

# --- 4. Initialiser le réseau ---
vocab_size = len(vocab)
emb_size = 64
hidden_size = 128
class_size = len(classes)

rnn = SimpleRNN(vocab_size, emb_size, hidden_size, class_size)
device = torch.device("cuda" if torch.cuda.is_available() else "cpu")
rnn = rnn.to(device)

# --- 5. Récupérer un batch pour test ---
for X, y in loader:
    X, y = X.to(device), y.to(device)
    batch_size, seq_len, _ = X.shape

    # Initialiser l'état caché pour ce batch
    hidden = rnn.init_hidden(batch_size=batch_size, device=device)

    print(f"Batch shape: {X.shape} (batch_size={batch_size}, seq_len={seq_len},␣
 ↪vocab_size={vocab_size})")

    # Passer la séquence mot par mot
    for t in range(seq_len):
        output, hidden = rnn(X[:, t, :], hidden)

    print("Output shape:", output.shape)  # [batch_size, class_size]
    print("Hidden shape:", hidden.shape)  # [batch_size, hidden_size]
    break  # un seul batch suffit pour le test
```

```
Batch shape: torch.Size([8, 20, 15214]) (batch_size=8, seq_len=20,
vocab_size=15214)
Output shape: torch.Size([8, 6])
Hidden shape: torch.Size([8, 128])
```

[13]:
```
from train_rnn import RNNTrainer
trainer = RNNTrainer(
    train_path="./dataset/train.txt",
    test_path="./dataset/test.txt",
    epochs=20,
    batch_size=16,
    hidden_size=128,
    emb_size=64
)

trainer.train()
trainer.evaluate()
```

```
 Data prepared: 16000 samples, vocab=15214, classes=6
  Model initialized on cpu
Epoch 01 | Loss: 1.5799 | Accuracy: 33.09%
Epoch 02 | Loss: 1.5298 | Accuracy: 36.24%
Epoch 03 | Loss: 1.2457 | Accuracy: 47.14%
Epoch 04 | Loss: 1.0606 | Accuracy: 55.30%
Epoch 05 | Loss: 0.8809 | Accuracy: 66.69%
Epoch 06 | Loss: 0.8072 | Accuracy: 71.12%
Epoch 07 | Loss: 0.7745 | Accuracy: 73.47%
Epoch 08 | Loss: 0.7094 | Accuracy: 76.62%
Epoch 09 | Loss: 0.6356 | Accuracy: 79.39%
Epoch 10 | Loss: 0.5632 | Accuracy: 81.84%
Epoch 11 | Loss: 0.5056 | Accuracy: 83.88%
Epoch 12 | Loss: 0.4794 | Accuracy: 84.74%
Epoch 13 | Loss: 0.4310 | Accuracy: 86.21%
Epoch 14 | Loss: 0.4098 | Accuracy: 87.00%
Epoch 15 | Loss: 0.3836 | Accuracy: 87.85%
Epoch 16 | Loss: 0.3636 | Accuracy: 88.31%
Epoch 17 | Loss: 0.4054 | Accuracy: 87.14%
Epoch 18 | Loss: 0.3513 | Accuracy: 88.69%
Epoch 19 | Loss: 0.3159 | Accuracy: 89.74%
Epoch 20 | Loss: 0.3180 | Accuracy: 90.18%
  Training complete.
 Test accuracy: 67.60%
```

[13]:
```
67.6
```

0.2.4 OptimizedRNNTrainer

Cette classe reprend la logique du `RNNTrainer` mais ajoute : - Un filtrage **TF-IDF adouci** pour ignorer les mots trop rares ou trop fréquents,
- Une **pondération de classes** pour limiter les effets du déséquilibre,
- Un modèle plus **léger et rapide** (hidden=64, embedding=64).

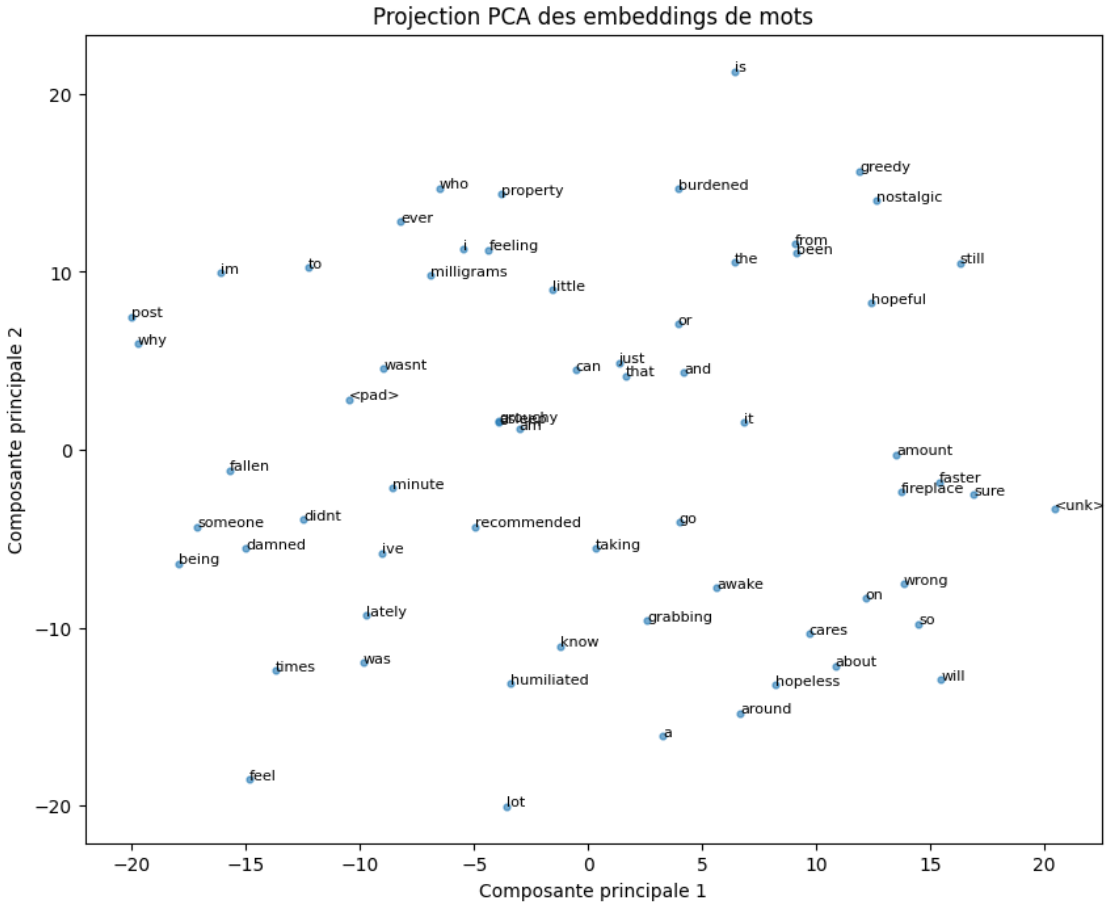
[3]:
```
from optimized_rnn_trainer import OptimizedRNNTrainer

trainer = OptimizedRNNTrainer(
    train_path="./dataset/train.txt",
    test_path="./dataset/test.txt",
    epochs=20,
    batch_size=16,
    hidden_size=64,
    emb_size=64
)

trainer.train()
trainer.evaluate()
```

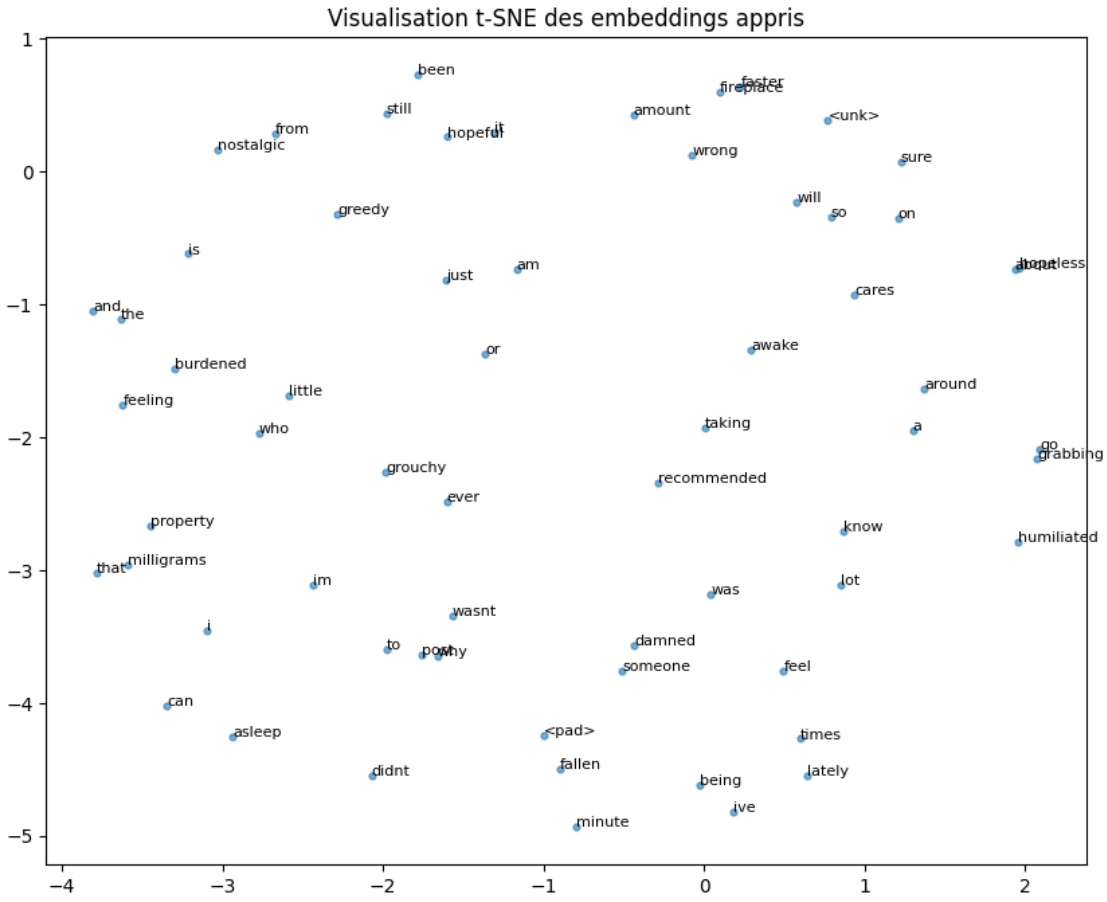
```
 Filtered vocab size: 15212

 Training started…

Epoch 01 | Loss: 1.7847 | Accuracy: 26.10%
Epoch 02 | Loss: 1.5026 | Accuracy: 45.47%
Epoch 03 | Loss: 1.0336 | Accuracy: 64.67%
Epoch 04 | Loss: 0.8062 | Accuracy: 71.39%
Epoch 05 | Loss: 0.7247 | Accuracy: 74.16%
Epoch 06 | Loss: 0.4811 | Accuracy: 83.89%
Epoch 07 | Loss: 0.3681 | Accuracy: 88.29%
Epoch 08 | Loss: 0.3034 | Accuracy: 90.45%
Epoch 09 | Loss: 0.2363 | Accuracy: 92.62%
Epoch 10 | Loss: 0.3223 | Accuracy: 89.81%
Epoch 11 | Loss: 0.3273 | Accuracy: 89.57%
Epoch 12 | Loss: 0.2207 | Accuracy: 92.72%
Epoch 13 | Loss: 0.1599 | Accuracy: 94.76%
Epoch 14 | Loss: 0.1986 | Accuracy: 93.71%
Epoch 15 | Loss: 0.1528 | Accuracy: 94.74%
Epoch 16 | Loss: 0.1548 | Accuracy: 94.88%
Epoch 17 | Loss: 0.1763 | Accuracy: 94.35%
Epoch 18 | Loss: 0.1850 | Accuracy: 94.32%
Epoch 19 | Loss: 0.1466 | Accuracy: 95.26%
Epoch 20 | Loss: 0.1358 | Accuracy: 95.49%

 Training finished.

\ Test accuracy: 63.40%
```

[3]:
```
63.4
```

[8]:
```
import torch
import matplotlib.pyplot as plt
from sklearn.decomposition import PCA
```

```python
from sklearn.manifold import TSNE

# --- Extraire la matrice d'embeddings ---
embeddings = trainer.rnn.i2e.weight.detach().cpu().numpy()  # [vocab_size,␣
 ↪emb_size]
words = list(trainer.vocab.mapping.keys())

# --- Réduction PCA ---
pca = PCA(n_components=2)
reduced = pca.fit_transform(embeddings)

max_words = min(len(words), len(reduced), 80)

plt.figure(figsize=(10, 8))
plt.scatter(reduced[:, 0], reduced[:, 1], alpha=0.6, s=12)
for i, word in enumerate(words[:max_words]):
    plt.text(reduced[i, 0], reduced[i, 1], word, fontsize=8)
plt.title("Projection PCA des embeddings de mots")
plt.xlabel("Composante principale 1")
plt.ylabel("Composante principale 2")
plt.show()

# --- Réduction t-SNE ---
try:
    tsne = TSNE(n_components=2, perplexity=30, max_iter=3000, random_state=42)
except TypeError:
    tsne = TSNE(n_components=2, perplexity=30, n_iter=3000, random_state=42)

reduced_tsne = tsne.fit_transform(embeddings)

max_words = min(len(words), len(reduced_tsne), 80)
plt.figure(figsize=(10, 8))
plt.scatter(reduced_tsne[:, 0], reduced_tsne[:, 1], alpha=0.6, s=12)
for i, word in enumerate(words[:max_words]):
    plt.text(reduced_tsne[i, 0], reduced_tsne[i, 1], word, fontsize=8)
plt.title("Visualisation t-SNE des embeddings appris")
plt.show()
```


Projection PCA des embeddings de mots
Composante principale 1
Composante principale 2
is
greedy
who
property
burdened
nostalgic
ever
i
feeling
from
been
im
to
milligrams
the
still
little
hopeful
post
or
why
wasnt
can
just
that
and
<pad>
it
amount
fallen
minute
faster
fireplace
sure
<unk>
someone
didnt
recommended
go
damned
ive
taking
being
awake
wrong
on
lately
grabbing
so
cares
know
about
times
was
humiliated
hopeless
will
around
a
feel
lot



La projection PCA montre une organisation encore diffuse des mots, avec quelques regroupements sémantiques émergents : les termes émotionnels comme hopeless, feel ou humiliated apparaissent proches, tandis que les mots fonctionnels (the, is, and) restent regroupés ailleurs, et les tokens spéciaux comme et sont clairement isolés. La visualisation t-SNE affine cette structure en révélant des micro-clusters plus cohérents : les mots exprimant des émotions négatives gravitent ensemble, alors que les mots neutres ou de liaison forment des zones distinctes. Cela indique que le RNN a partiellement capté des relations de sens et de contexte, mais de manière encore superficielle en raison du faible nombre d'epochs et de la taille réduite du corpus.

[ ]:
```python
# ============================================================
#  Use the same vocab for context→word learning
# ============================================================
from torch.utils.data import Dataset, DataLoader
from data_processing import tokenizer, one_hot
from rnn_model import SimpleRNN
import torch.nn as nn
import torch.optim as optim

class ContextDataset(Dataset):
```

```
    def __init__(self, texts, vocab, window=3, max_len=5):
        self.vocab = vocab
        self.max_len = max_len
        self.samples = []
        for s in texts:
            tokens = tokenizer(s)
            encoded = vocab(tokens)
            for i in range(1, len(encoded)):
                context = encoded[max(0, i - window):i]
                target = encoded[i]
                self.samples.append((context, target))

    def __len__(self):
        return len(self.samples)

    def __getitem__(self, idx):
        context, target = self.samples[idx]
        pad_id = self.vocab["<pad>"]
        if len(context) < self.max_len:
            context = [pad_id] * (self.max_len - len(context)) + context
        context_one_hot = one_hot(context, num_classes=len(self.vocab))
        X = torch.tensor(context_one_hot, dtype=torch.float32)
        y = torch.tensor(target, dtype=torch.long)
        return X, y


# --- Build context dataset using same vocab from trainer ---
auto_dataset = ContextDataset(trainer.train_dataset.texts, trainer.vocab)
auto_loader = DataLoader(auto_dataset, batch_size=32, shuffle=True)

# --- Initialize new model for auto-supervised learning ---
device = trainer.device
model_auto = SimpleRNN(len(trainer.vocab), 64, 64, len(trainer.vocab)).
 ↪to(device)
criterion_auto = nn.NLLLoss()
optimizer_auto = optim.Adam(model_auto.parameters(), lr=0.002)

print("\n Auto-supervised training started...\n")
for epoch in range(5):
    model_auto.train()
    total_loss = 0
    for X, y in auto_loader:
        X, y = X.to(device), y.to(device)
        hidden = model_auto.init_hidden(X.size(0), device=device)
        for t in range(X.size(1)):
            output, hidden = model_auto(X[:, t, :], hidden)
        loss = criterion_auto(output, y)
```

```
        optimizer_auto.zero_grad()
        loss.backward()
        optimizer_auto.step()
        total_loss += loss.item()
    print(f"Epoch {epoch+1} | Loss: {total_loss / len(auto_loader):.4f}")

print("\nAuto-supervised context→word training done.\n")
```

```
Auto-supervised training started…
```

[ ]: