Flow

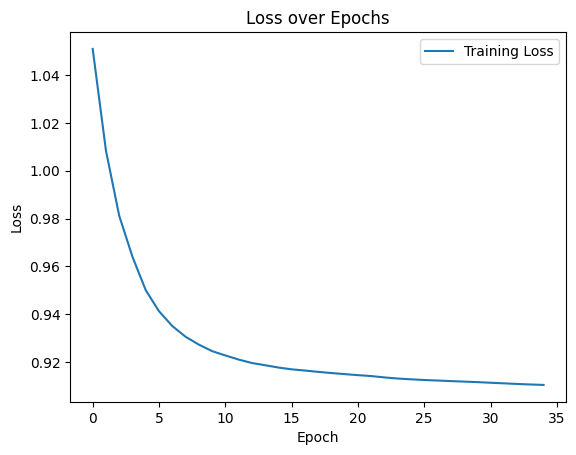
1. Fix seed to 42
2. Create labeled train data
3. Generate vocabulary – train words and two preceeding words, and two following words for end of sequence
4. Construct computation graph according to the specifications
5. Train
   1. Between each train iteration check dev accuracy, calculated according to the specifications
   2. With word that is in train data but not dev data –
      1. Give majority label - Naïve
      2. Randomly initialized vector – uses learned embeddings
      3. Search for same windows in train data and takes majority label – some or all sub combinations in 4 window (prior two, prior 1, following 1, following 2, prior two and following 1, all 4 and so on) – most complex but probably works good.

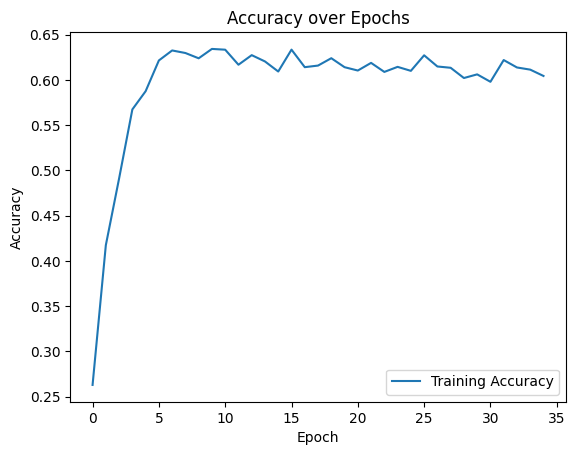
﻿Experiment with several network configurations, learning rates. Generate the graphs requested.

**Task 1 – ner**

Hidden dim 20

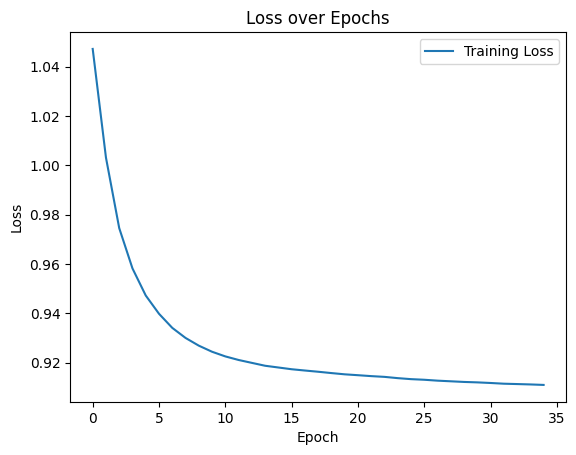
Accuracy peaked in epoch 9 with Accuracy: 0.6343071616960844

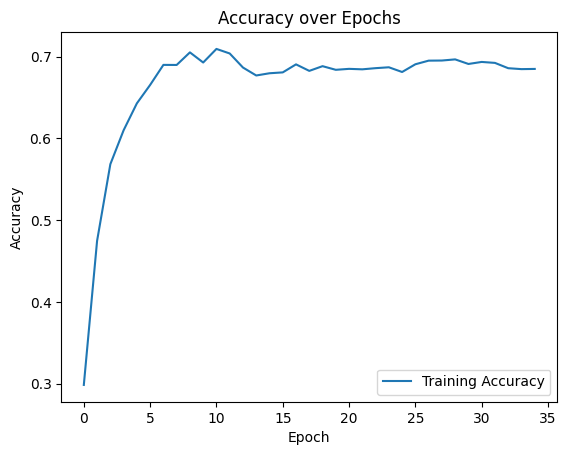




Hidden dim 40

Accuracy peaked in epoch 10 with Accuracy: 0.7095618345618345





Hidden dim 60

Accuracy peaked in epoch 8 with Accuracy: 0.6895493970806008

