

Machine Learning With TensorFlow

NLP IN TENSORFLOW PART I

- QUIZ
- ASSIGNMENTS
- OPEN DISCUSSION
- EVALUATION METRICS

QUIZ



https://forms.office.com/e/aCLYqgcimd

ASSIGNMENTS

ASSIGNMENTS NEXT WEEK?

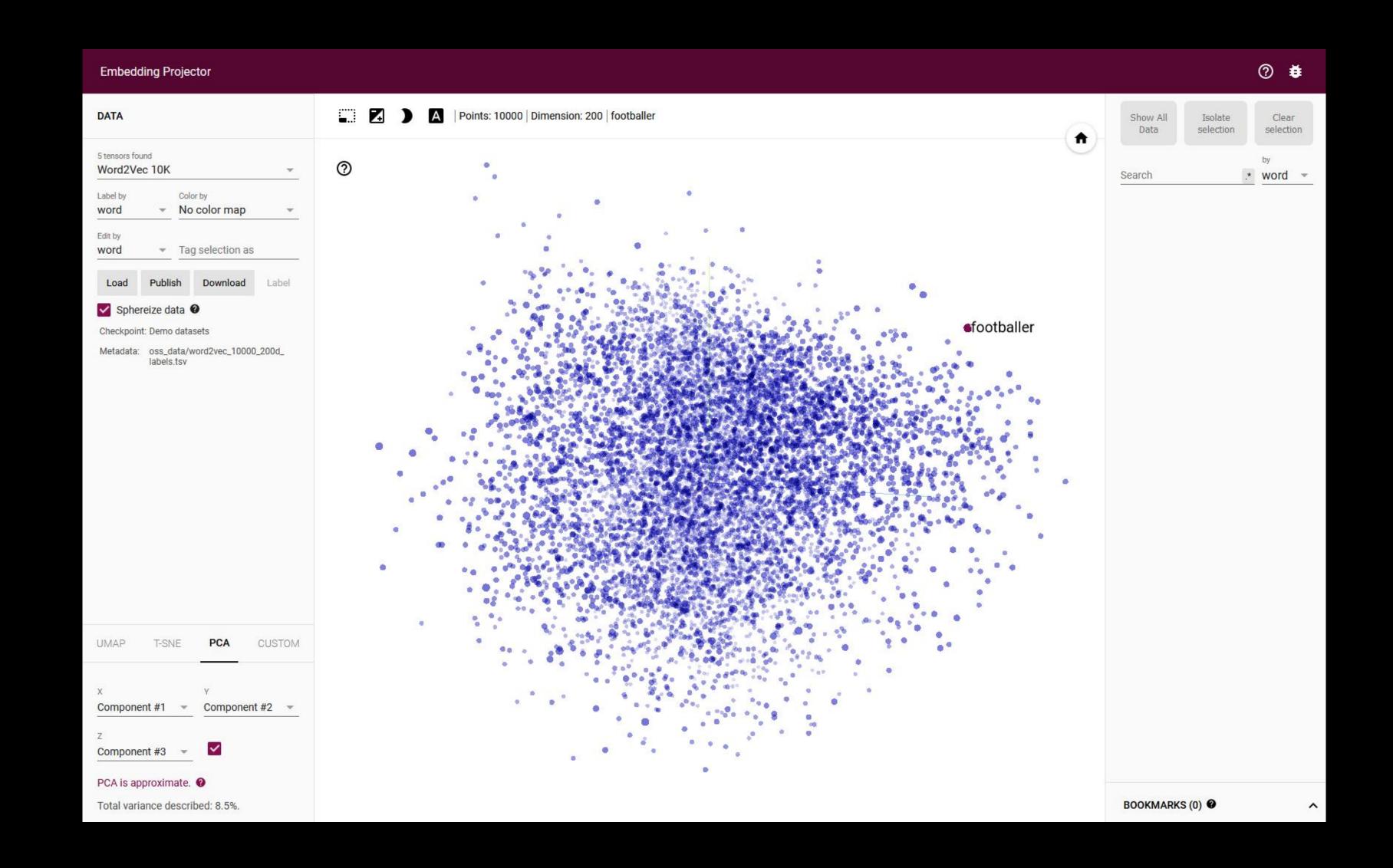
OPEN DISCUSSION

How is it decided if a word is a stop word or not?

Would it make sense to use Transfer Learning for the Embedding layer? What would it mean to do that?

What is the result of the Global Average Pooling (1D) Layer after the embedding layer?

EMBEDDING PROJECTOR



EVALUATION METRICS (CLASSIFICATION)

- Accuracy
- Balanced Accuracy
 - Average of accuracies for each class
- Precision
 - How many false positives?
- Recall
 - How many false negatives?
- F1-Score
 - Harmonic (!) mean of Precision and Recall
- •••

EVALUATION METRICS (REGRESSION)

- Mean Absolute Error (MAE)
- Mean Squared Error (MSE)
 - Stronger punishment of large errors
- Root Mean Squared Error (RMSE)
- Mean Absolute Percentage Error (MAPE)
- \blacksquare R^2
 - Proportion of variance explained by the model
- •••

PROJECTS MILESTONES

07.11.	Project	pitcl	nes
	110100	Picci	

- 14.11. Form groups
- 21.11. Literature review
- 28.12. Dataset characteristics
- 05.12. Baseline model
- 12.12. Model evaluation
- 19.12. (Feedback session)
- 02.01./09.01. Final model optimization
- 16.01./23.01. Project presentations

TASKS UNTIL NEXT WEEK

 Completion of the learning material of week 3 and 4 of the NLP course

Complete the assignment notebook

Decide on an evaluation metric and evaluate your baseline model