

Lecture: Machine Translation

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**Video:** Overview  
1 min
- ✓

**Video:** Transforming word vectors  
6 min
- 📄

**Ungraded Lab:** Rotation matrices in R2  
1h
- ✓

**Video:** K-nearest neighbors  
3 min
- ✓

**Video:** Hash tables and hash functions  
3 min
- ✓

**Video:** Locality sensitive hashing  
5 min
- ✓

**Video:** Multiple Planes  
3 min
- 📄

**Ungraded Lab:** Hash tables  
1h
- ✓

**Video:** Approximate nearest neighbors  
3 min
- ✓

**Video:** Searching documents  
1 min

Assignment: Machine Translation

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**Programming Assignment:** Word Translation  
3h
- 📖

**Reading:** Acknowledgements  
10 min
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**Reading:** Bibliography  
10 min

Programming Assignment: Word Translation

You have not submitted. You must earn 9/11 points to pass.

**Deadline** Pass this assignment by Sep 7, 12:29 PM IST

Launch Notebook

InstructionsMy submissionDiscussions

Your Submissions

Date	Score	Passed?
▼ August 15, 2020 5:06 PM IST	9/11	Yes
Exercise 4 - LSH	9/11	Hide grader output

```
Function "np.squeeze" not found in Code Cell UNQ_C17.
Code Cell UNQ_C2: Function 'get_matrices' is correct.
Code Cell UNQ_C2: The value of your variable 'X_train' is correct.
Code Cell UNQ_C2: The value of your variable 'Y_train' is correct.
Code Cell UNQ_C3: Function 'compute_loss' is correct.
Code Cell UNQ_C4: Function 'compute_gradient' is correct.
Code Cell UNQ_C5: Function 'align_embeddings' is correct.
Code Cell UNQ_C6: The value of your variable 'R' is correct.
Code Cell UNQ_C6: Your console output is correct.
Code Cell UNQ_C7: The value of your variable 'R_train' is correct.
Code Cell UNQ_C7: Your console output is correct.
Code Cell UNQ_C8: Function 'nearest_neighbor' is correct.
Code Cell UNQ_C9: The value of your variable 'candidates' is correct.
Code Cell UNQ_C10: Function 'test_vocabulary' is correct.
Code Cell UNQ_C11: The value of your variable 'acc' is correct.
Code Cell UNQ_C12: Function 'get_document_embedding' is correct.
Code Cell UNQ_C13: The value of your variable 'tweet_embedding' is correct.
Code Cell UNQ_C14: Function 'get_document_vecs' is correct.
Code Cell UNQ_C15: The value of your variable 'ind2Tweet' is correct.
Code Cell UNQ_C15: The value of your variable 'document_vecs' is correct.
Code Cell UNQ_C16: The value of your variable 'idx' is correct.
Code Cell UNQ_C16: The value of your variable 'all_tweets' is correct.
Code Cell UNQ_C18: Function 'hash_value_of_vector' is correct.
Code Cell UNQ_C19: Function 'make_hash_table' is correct.
Code Cell UNQ_C20: You have an incorrect value for 'tmp_hash_table' variable. We expected a value of '3' and you have '1351'.
Code Cell UNQ_C20: You have an incorrect value for 'tmp_id_table' variable. We expected a value of '3' and you have '1351'.
Code Cell UNQ_C21: Function 'approximate_knn' is correct.
Code Cell UNQ_C22: The value of your variable 'nearest_neighbor_ids' is correct.
If you see many functions being marked as incorrect, try to trace back your steps & identify if there is an incorrect function that is being used.
This dependency may be the cause of the errors.
```

