

Financial AI

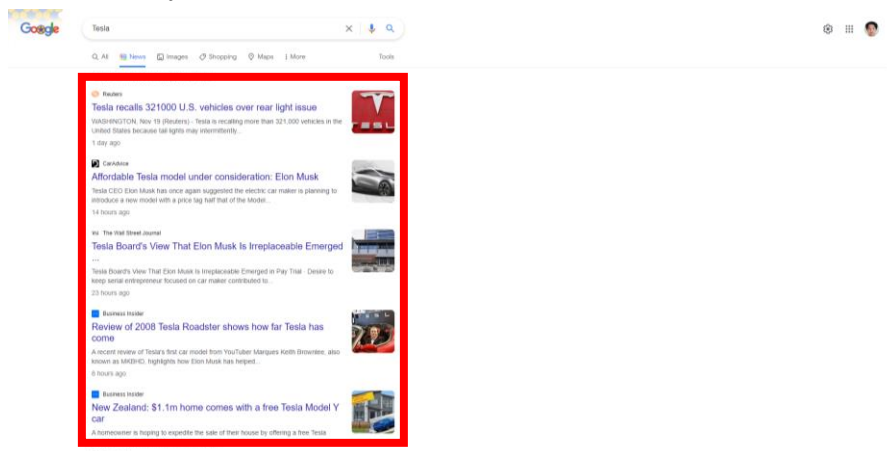
Homework 9

Due at 06:00 pm (Korea Standard Time) on Saturday, December 3

Submit one file: written solutions with executable Python code

Problem 1. Compare the news titles of two stocks numerically.

- (a) Crawl the HTML document on the News page of Google site for TESLA.
(https://www.marketwatch.com/investing/stock/tsla?mod=search_symbol)
- (b) Extract only news titles from the recent news section and process the text.



- (c) Use word2vec to vectorize the text (dimension = 20) and dimensionally reduce the text vectorized using t-SNE (dimension = 2).
- (d) Visualize dimensionally reduced results with plots.
- (e) (Optional task) Do the same about Google and then compare.

Problem 2. LeetCode and HackerRank

- (a) Solve and Submit LeetCode : 70. Climbing Stairs
(<https://leetcode.com/problems/climbing-stairs/>)
- (a) Solve and Submit LeetCode : 94. Binary Tree Inorder Traversal (use DFS)
(<https://leetcode.com/problems/binary-tree-inorder-traversal/>)
- (b) Solve and Submit HackerRank : Gena Playing Hanoi
(https://www.hackerrank.com/challenges/gena/problem?h_r=internal-search)