Jory Fhel R. Benedicto BSIT - 3

Question: What makes spinach the healthiest vegetables in the world?

DATA CLEANING

Vegetables Dataframe (CORPUS)

Out[21]:

full_name	transcript	
Beetroo	People often describe beetroot as a superfood and have used it for centuries to treat fever, constipation, and skin complaints. Researchers are no	beets
Brassica oleracea va italic	Broccoli has a reputation as a superfood, it is low in calories but contains a wealth of nutrients and antioxidants that support many aspects of h	broccoli
Brassica oleracea va capitat	Cabbage, which is often lumped into the same category as lettuce because of their similar appearance, is actually a part of the cruciferous vegeta	cabbage
Daucus carota subsp sativu	We include products we think are useful for our readers. If you buy through links on this page, we may earn a small commission. Here's our process	carrots
Brassica oleracea va botryti	Cauliflower is a cruciferous vegetable that is naturally high in fiber and B-vitamins. It provides antioxidants and phytonutrients that can protec	cauliflower
Allium sativui	Garlic (Allium sativum), is used widely as a flavoring in cooking, but it has also been used as a medicine throughout ancient and modern history;	garlic
Kal	We include products we think are useful for our readers. If you buy through links on this page, we may earn a small commission. Here's our process	kale
Allium cep	We include products we think are useful for our readers. If you buy through links on this page, we may earn a small commission. Here's our process	onions
Pisum sativui	A recent review and meta-analysis focus on the role of legumes in heart health. Taking data from multiple studies and earlier analyses, the author	peas
Seawee	Seaweed grows in or near salty waters. There are several types, and they generally contain many healthful minerals that are easy for the body to b	seaweed
Spinacia olerace	Spinach is a superfood, it is loaded with tons of nutrients in a low-calorie package. Dark, leafy greens like spinach are important for skin, hair	spinach
Sprout	Brussels sprouts are a staple of Christmas and Thanksgiving dinner. However, including more of these low calorie, nutritionally dense vegetables i	sprouts
lpomoea batata	We include products we think are useful for our readers. If you buy through links on this page, we may earn a small commission. Here's our process	sweet potatoes
Solanum lycopersicu	We include products we think are useful for our readers. If you buy through links on this page, we may earn a small commission. Here's our process	tomato

DOCUMENT-TERM MATRIX

Out[24]:

	ability	able	abnormally	absorb	absorbed	absorbing	absorbs	absorption	academic	accompaniment		yams	уеаг	yearround	yea
beets	2	0	0	0	0	0	0	0	0	1		0	0	0	
broccoli	0	0	0	0	0	0	0	0	0	0		0	0	0	
cabbage	2	2	0	1	0	0	0	0	0	0		0	0	0	
carrots	0	0	0	2	0	0	1	0	0	0	100	0	2	0	
auliflower	0	0	0	0	0	0	0	2	0	0		0	0	0	
garlic	0	0	1	0	0	0	0	0	1	0	130	0	1	0	
kale	0	0	0	1	0	2	0	0	0	0		0	1	0	
onions	0	0	0	0	0	0	0	0	0	0	100	0	0	0	
peas	0	0	0	0	0	0	0	0	0	0		0	0	0	
seaweed	0	1	0	1	0	0	1	0	0	0	30	0	0	0	
spinach	0	0	0	0	1	0	0	2	0	0		0	0	0	
sprouts	1	1	0	0	0	0	0	0	0	0	130	0	1	1	
sweet potatoes	0	0	0	0	0	0	0	1	0	0		1	1	0	
tomato	0	0	0	0	0	0	0	0	0	0	m	0	1	0	

14 rows × 2296 columns

EXPLORATORY-DATA-ANALYSIS

Word Cloud





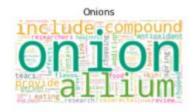




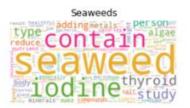






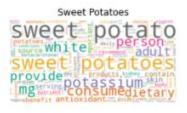


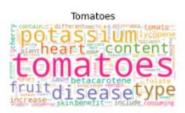




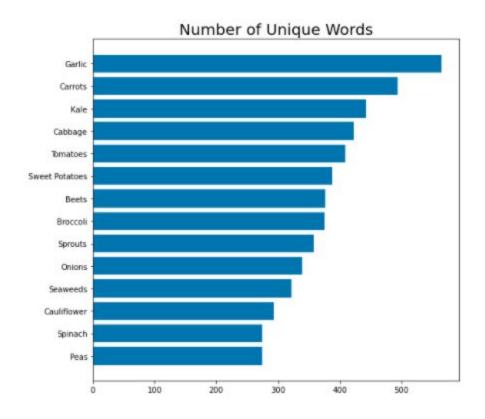


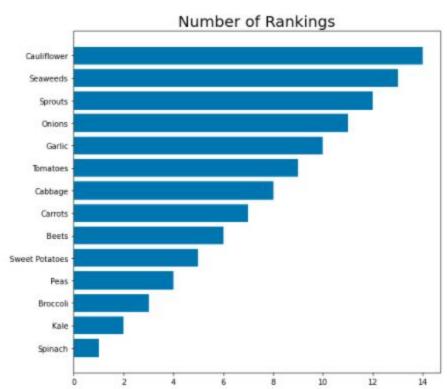






Plotting the Unique Words and the Vegetable rankings





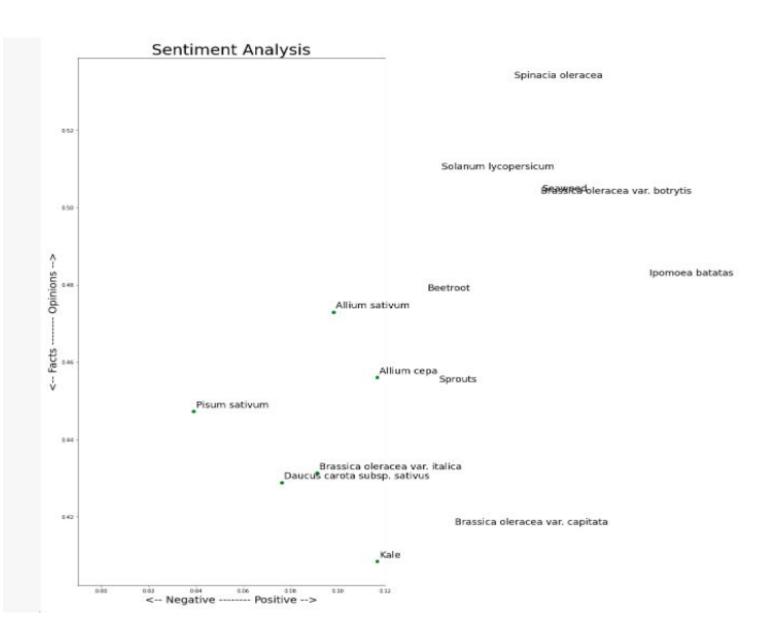
SENTIMENT ANALYSIS

Plotting The Polarity and Subjectivity

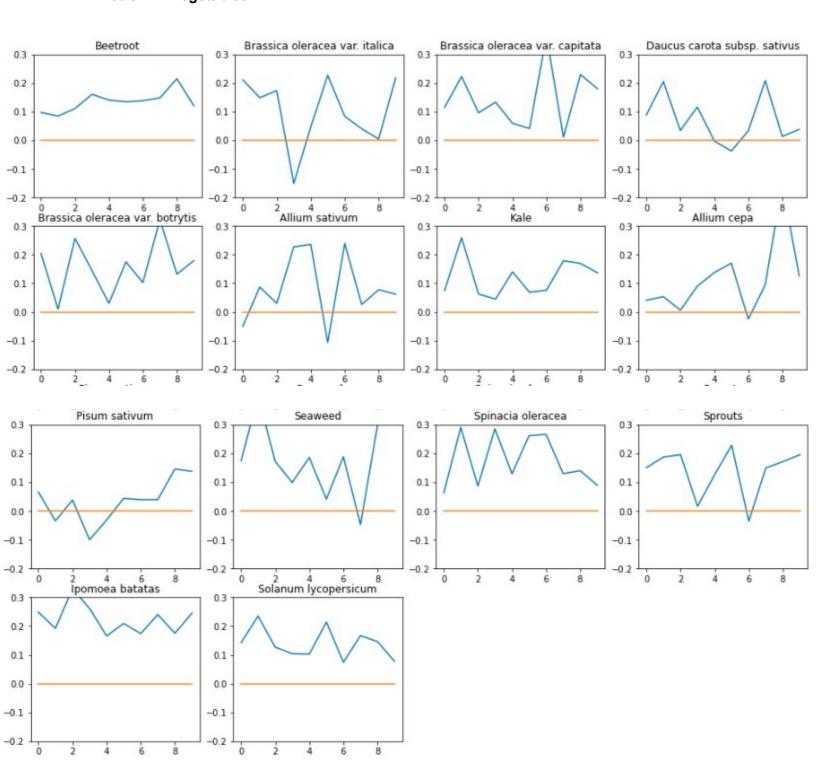
Out[3]:

	transcript	full_names	polarity	subjectivity
beets	People often describe beetroot as a superfood	Beetroot	0.136863	0.477575
broccoli	Broccoli has a reputation as a superfood, it i	Brassica oleracea var. italica	0.091176	0.431289
cabbage	Cabbage, which is often lumped into the same c	Brassica oleracea var. capitata	0.148545	0.416935
carrots	We include products we think are useful for ou	Daucus carota subsp. sativus	0.076316	0.428896
cauliflower	Cauliflower is a cruciferous vegetable that is	Brassica oleracea var. botrytis	0.184764	0.502676
garlic	Garlic (Allium sativum), is used widely as a f	Allium sativum	0.098121	0.472986
kale	We include products we think are useful for ou	Kale	0.116494	0.408436
onions	We include products we think are useful for ou	Allium cepa	0.116492	0.456074
peas	A recent review and meta-analysis focus on the	Pisum sativum	0.039132	0.447280
seaweed	Seaweed grows in or near salty waters. There a	Seaweed	0.185491	0.503219
spinach	Spinach is a superfood, It is loaded with tons	Spinacia oleracea	0.173506	0.532588
sprouts	Brussels sprouts are a staple of Christmas and	Sprouts	0.141923	0.453961
sweet potatoes	We include products we think are useful for ou	lpomoea batatas	0.230795	0.481400
tomato	We include products we think are useful for ou	Solanum lycopersicum	0.142864	0.508868

Plotting The Results



Plot Of All Vegetables



All of these results, creating a natural language processing using sentiment analysis shows that the vegetable Spinach is the most healthiest vegetable in the world.

Reference/Web Page links:

https://www.medicalnewstoday.com/articles/270609', https://www.medicalnewstoday.com/articles/270435', https://www.medicalnewstoday.com/articles/266765', https://www.medicalnewstoday.com/articles/327090', https://www.medicalnewstoday.com/articles/281438', https://www.medicalnewstoday.com/articles/311343', https://www.medicalnewstoday.com/articles/270191', https://www.medicalnewstoday.com/articles/284823#1', https://www.medicalnewstoday.com/articles/273031', https://www.medicalnewstoday.com/articles/265853', https://www.medicalnewstoday.com/articles/284765', https://www.medicalnewstoday.com/articles/323916', https://www.medicalnewstoday.com/articles/323916', https://www.medicalnewstoday.com/articles/282844'