

do
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days until Noam Chomsky's B-day: 258

Codio Research

RQ
reduce ($\lambda \text{ acc} \downarrow \text{ cur}$)
 $x, y : [x+y]$, list, initial(a)

CSV File

txt	Sentiment
	0
	1
	0
	1
	...

take each entry & put it in to an array. each tweet is a value.

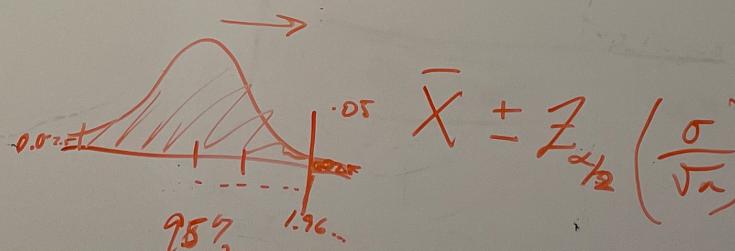
- ✓ ① take table & turn into Python list


```
new_list = df.to_list()
print(new_list) # test that list we made
↳ [www, www, www, ...]
```
- ✓ ② use reduce to go through & slice each string into individual words


```
new list of each ind. word (no more ind. words)
```
- ③ use map/filter/reduce to isolate common words

✓ Find WordCloud written in python on the internet ✓

Then, adjust it to fit our data



GOALS

- Establish a new curriculum foundation for IDDS 2132 Practical Machine Learning
- Complete paper about our year-long process to submit to the SIGSCE conference

OVERVIEW

- Process to reach goals took multiple forms
- Reforming curriculum was based off observations from the previous running of the course
- Used new demo assignment called Space Sheet
- Attempted coding autoencoder/decoder to better visualize the latent space process
- Provided a comprehensive writeup of the process for SIGSCE

Observations from PML

- IDDS 2132, better known as Practical Machine Learning (PML) ran in the spring of 2021 and spring of 2022
- First run of the course was based off an MIT research project by Natalie Lao advertised to teach non-computer science majors computer science
- Post-first run revealed flaws in the assignments and expectations for how much coding students were capable of, notably the A7 assignment
- Vastly different pre-requisites and exposure to math and coding at a tech school like MIT versus a liberal arts institution like Emmanuel
- Access to technology such as a computer lab also impacted success of the course
- A7 was edited to become more concise with a greater focus on the goal of the assignment for students to understand latent space in machine learning
- Second run of the course (spring 2022) showed that the platform being used was too difficult for students and additional coding requirements added unnecessary complexities
- A7 needed to be scratched to better compensate these differences



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