Natural Language Processing(NLP) Applied to Slang Language Over the Decades:

Project Description:

The project involved Natural Language Processing(NLP) and utilized the Python programming language and its various built-in libraries. NLP is a field that is part of the areas of Artificial Intelligence, Linguistics and Computer Science. NLP mainly focuses on how computers process language; this can involve processing large volumes of data. There are several phases of NLP. These phases are as follows: lexical analysis, parsing, semantic analysis, discourse integration, and pragmaticanalysis. Due to time and knowledge constraints, we kept it relatively simple. The project used built-in libraries.

```
# Imported relevant libraries:

import requests; from bs4 import BeautifulSoup; import csv
import btm15lib
import pandas as pd

# NLTK library:
import nltk
import nltk
import nltk
import nltk.corpus import brown; brown.words()
from nltk.corpus import brown; brown.words()
from nltk.corpus import wordnet
from sltk.corpus import wordnet
from sklearn.feature_extraction.text import CountVectorizer
from sklearn.feature_extraction.text import TfidfVectorizer
from sklearn.feature_extraction.text import TfidfVectorizer
from sklearn.metrics.painwise import cosine_similarity
import numpy as np
```

Actual Project:

The datasets were individually coded and stored in the form of a list. During the planning portion of the project, I had trouble finding enough relevant datasets.

There was also a time constraint. This also meant that I did not have as much time to preprocess the data.

Below you can see an example of the code:

The project quickly became a solo project. Overall, after finding the right resources, the project went rather well. Eventually, it came time to present my findings at Code2gether's showcase.

Project Outcome:

This project ended up winning in the category of "Most Unique."