

# COMBINATION ALGORITHM

## 1. Algorithm Overview

The project uses a combination algorithm to create potential news titles by mixing elements from a predefined set of words or phrases. The goal is to generate titles that do not overlap with existing ones in any recognizable way.

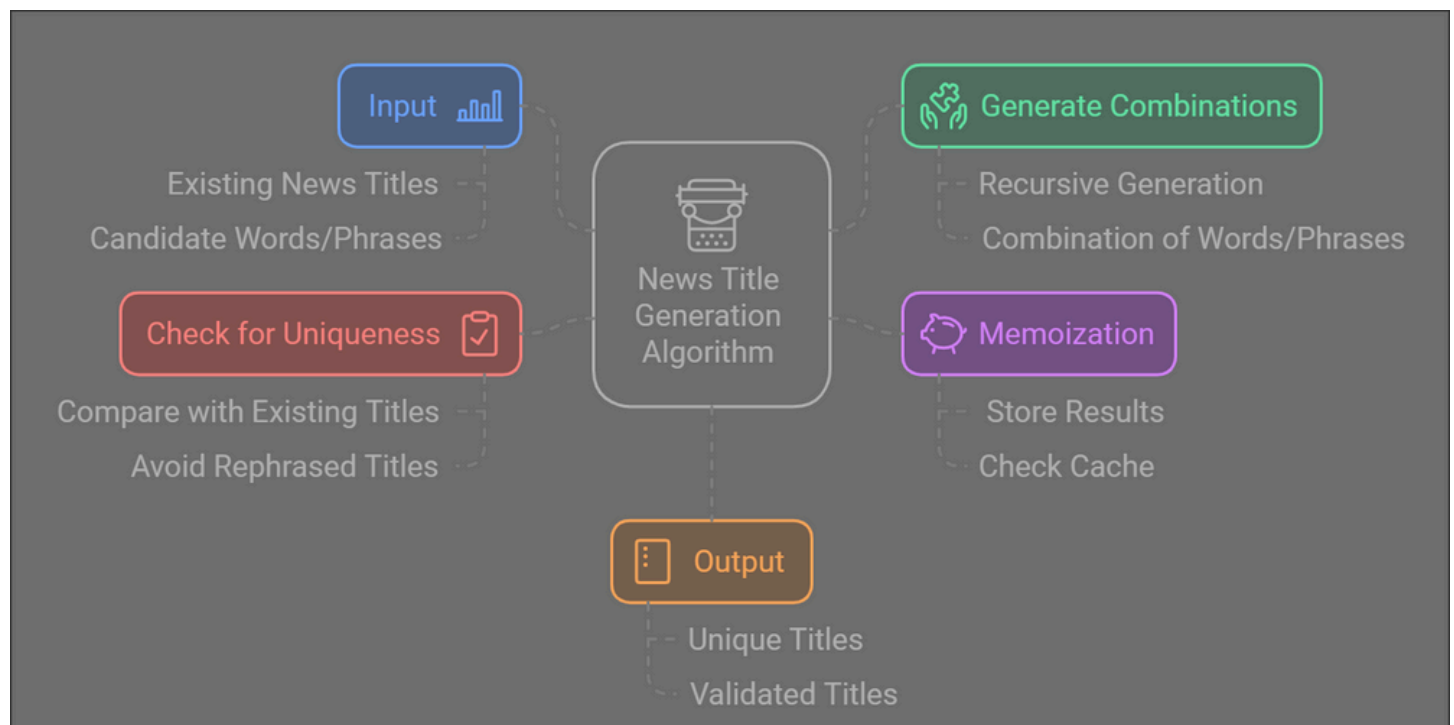
## 2. Key Techniques

Recursion:

Recursion is used to explore all possible combinations of words or phrases to form new titles. This ensures that all potential permutations and combinations are considered without manually generating each one.

Memoization:

To optimize the recursive approach, memoization is used to store previously computed combinations. This prevents the algorithm from recalculating the same combinations multiple times, improving efficiency.



Working Of Algorithm