

# **WORD COUNT ANALYZER PROJECT**

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# Introduction

- This project analyzes any text and counts the frequency of each word.
- It removes punctuation and converts all text to lowercase.
- It uses Python modules: string, Counter, and file handling.
- Outputs an analyzed summary plus Top words table.

# Function: `clean_text()`

- Removes punctuation using `str.maketrans()`
- Converts all text to lowercase
- Ensures clean and uniform input for analysis

# Function: `count_words()`

- Splits cleaned text into words using `split()`
- Uses `Counter()` to count occurrences
- Returns a dictionary-like object with frequencies

# Function: `display_results()`

- Calculates total and unique word count
- Shows top N most frequent words
- Uses formatted print output with colors

# Terminal Output Example

## Word Count Analysis

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Total words : 42

Unique words : 28

Top 10 Most Frequent Words:

python → 5

project → 4

word → 3

analysis → 2

count → 2

# Conclusion

- The project efficiently analyzes text for word frequency.
- Demonstrates Python functions, data handling, and cleanup.
- Simple yet useful for NLP preprocessing and beginners.