

# **WORD COUNT ANALYZER PROJECT**

By: Alok Ranjan Nanda

Reg No: 25BAI10778

Branch: CSE AIML

# 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

-----

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.