Department of Artificial Intelligence and Data Science

# **PROJECT REPORT**

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Sentiment Analysis Using Python

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#### Introduction

Sentiment Analysis is the process of identifying the emotional tone behind a body of text. It is widely used in business, marketing, politics, and social media to understand whether a statement is positive, negative, or neutral.

### **Objective**

To build a Python-based sentiment analysis tool that determines whether input text is positive, negative, or neutral using the TextBlob library.

#### **Tools Used**

- Python 3.x
- TextBlob Library
- IDLE
- Command Prompt

## Methodology

- 1. Accept text input from user.
- 2. Analyze text using TextBlob.
- 3. Determine polarity:
  - Positive > 0
  - Negative < 0
  - Neutral = 0

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4. Display sentiment result.

### **Python Code**

```
from textblob import TextBlob

text = input("Enter your sentence: ")

blob = TextBlob(text)

sentiment = blob.sentiment.polarity

if sentiment > 0:
    print("Sentiment: Positive")

elif sentiment < 0:
    print("Sentiment: Negative")

else:
    print("Sentiment: Neutral")
```

## **Sample Output**

Input: I love this product!

Output: Sentiment: Positive

Input: I hate this.

Output: Sentiment: Negative

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