**CSI3007 – Advanced Python Programming**

**Lab Activity 1 (11-07-2025)**

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**Reason for Interest in TextBlob package:**

I chose the TextBlob library because it is simple and also I’m interested to explore more in Natural Language Processing (NLP). Where it’s useful in areas like Product reviews analysis, Social media monitoring which can be experimented on our own whatsapp, linkedIn etc… to analyse things like in which area we spend more time, our sentiments etc. and Chatbot response analysis.

**I wrote a basic Python program to:**

* Install TextBlob package
* Import TextBlob
* Create a TextBlob instance with some text
* Analyze sentiment and noun phrases
* Translate the text to Spanish

**Error Occurred**

When I tried to run the code, I got this long error:

MissingCorpusError: Looks like you are missing some required data for this feature.

At the root of the traceback was this:

LookupError: Resource punkt\_tab not found.

**Reason**

TextBlob internally uses the **NLTK** library for:

* Sentence tokenization
* Word tokenization
* POS tagging (Parts of Speech)

To do this, it relies on a specific pretrained resource called **punkt**.

Since I hadn’t downloaded that resource yet, TextBlob failed when trying to split the input text into sentences.

**I Tried to Fix It**

I followed the instructions from the error message and ran:

python -m textblob.download\_corpora

SyntaxError: invalid syntax (This is a **terminal (command line)** instruction - **not Python code**. So, the error is occurred)