Republic of the Philippines

Laguna State Polytechnic University

Province of Laguna

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|  | **Weekly Progress Report** |  |  |
| **Topic:** | **Chatbot – Final Project** | **Week No.** | **13** |
| **Course Code:** | **CSST101, CSST102** | **Term:** | 1st Semester |
| **Course Title:** | **Advance Representation and Reasoning**  **Basic Machine Learning** | **Academic Year:** | 2024-2025 |

**Main Tasks Assigned**:

Fine-tune model hyperparameters (e.g., learning rate, batch size)

Conduct initial testing on the validation dataset

Record training results and identify potential issues

**Work Completed**:

Implemented the process\_input() function using NLTK to preprocess user inputs by tokenizing and removing stop words.

Integrated the preprocessing function into the chatbot workflow to handle inputs like gender, activity level, and body type.

**Challenges Encountered**:

Initial NLP implementation with NLTK faced tokenization errors for certain user input formats.

**Solutions Implemented**:

Used NLTK's stopword removal and tokenization features to clean and standardize user inputs.  
Applied preprocessing uniformly across input fields to avoid inconsistencies.

**Tasks for Next Week**:

Integrate NLP functionality for processing user inputs to improve chatbot responsiveness.  
Test input processing for a range of valid and invalid inputs.

**Instructor's Feedback**:

**Instructor’s Signature**: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Date**: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_