



Weekly Progress Report			
Topic:	Chatbot - Final Project	Week No.	14
Course Code:	CSST101, CSST102	Term:	1st Semester
Course Title:	Advance Representation and Reasoning Basic Machine Learning	Academic Year:	2024-2025

### Main Tasks Assigned:

Optimize model based on Week 3 results  
Improve data augmentation and preprocessing techniques  
Continue model training and monitor validation performance

### Work Completed:

BERT model was good, but it still lacks so we shift the model to T5 or text to text transfer transformers. We optimized the model from the results on training using BERT. We continue to train and validate performance using the preprocess data.

### Challenges Encountered:

The main challenge is using the right model and assessing models through trial and error. Another is training and validation loss monitoring; if the model is not compatible it can lead to poor results or overfitting at the early stage of training.

### Solutions Implemented:

Trial and error of different model such as BERT, GPT, etc. Another is adding preprocessing steps for the dataset to be more suitable along with fine tuning specifically learning rate.

### Tasks for Next Week:

To improve the model with training, adjusting what need to be adjusted for the training. Additionally, retraining will be implemented if needed while identifying issues.

### Instructor's Feedback:

Instructor's Signature: \_\_\_\_\_

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