Faculty of Engineering Science and Technology

Department of Computer Science and Computational Engineering

UiT The Arctic University of Norway

Improving learning capabilities of chatbots

James Pandey

Thesis for Master of Science in Computer Science

**Work Plans and Schedule**

January Week 2-4

Signing up the thesis,

Background check

Preliminary studies

February Week 5-6

Meeting up

Discussion

Working with plans

February Week 7-8

Preparing preliminary reports

March -April Week 8-13

Working on with the application and demonstrator

Progress check with supervisors

Starting with the thesis reports

April - May Week 14-18

Working with thesis report

Follow-up with supervisor

Changing up if anything is not working

June

Report submission

**Objectives to be included in the Chatbot**

**(Part 1) Theoretical**

1. Text analysis or Linguistic analysis
2. Investigation of the existing systems their capacity and limitation
3. To improve the feedback and learning mechanism (supervised or non-supervised)
4. Should be able to interpret the question in a meaningful way and provide responses
5. Implement the ontologies to link up with hyperlinks or navigation to respond the request of the user

**(Part 2) Demonstrator**

* + - 1. Coordination with chatbot team
      2. The tests should be developed with Narvik Kommunne
      3. Loss function based on utilities can be created for testing
      4. Solution must run in Microsoft platform