

# CHAPTER 1

## INTRODUCTION

### 1.1 Background

Angket Evaluasi Perkuliahan (AEP) is a technique used to collect data or information with the aim to know the response or evaluation of the student to the course or lecturer who teaches.

In the questionnaire, students are also asked to provide feedback, suggestions or opinions about the courses taken and lecturers who teach. Students can give their opinion either positive or negative when filling in question in questionnaire. Where from the results of student responses can be used to describe level of student satisfaction in the lecture.

However, there are still many problems in processing the questionnaire results. One of them is how to process questionnaire data. Respondents' answers about the questionnaire usually contain suggestions, criticisms, or opinions. Assessing or analyzing the questionnaire one by one manually certainly has an impact on high costs, such as time and resources. Therefore we need a tool that can be used to help the assessment process in the questionnaire quickly and efficiently.

The purpose of this project is to apply Sentiment Analysis using the K-Nearest Neighbor (KNN) algorithm to classify students' written questionnaire results. The questionnaire data will be extracted and analyzed automatically to be determined and grouped based on the opinions contained in the questionnaire. So it can be known which questionnaire has a positive or negative response. Where later can help lecturers to know the response or evaluation of students towards the course and their opinions about lecturers.

## 1.2 Scope

Scope of this project is :

1. How to get training data and test data?
2. How to process questionnaire data with Preprocessing and TF-IDF?
3. How does the K-Nearest Neighbor (K-NN) algorithm work to determine which questionnaires have positive or negative opinions?
4. How accurate is the K-Nearest Neighbor (K-NN) algorithm in determining the questionnaire classification?

The problem limits of this project are:

1. Training data taken from BMSI Unika Soegijapranata
2. Test data taken from the web that has been made before
3. Data Questionnaire to be processed only questionnaire in the Indonesian language.
4. The clustering algorithm used is K-Nearest Neighbor (K-NN).
5. Questionnaires are grouped by questionnaire with negative or positive opinions.

## 1.3 Objective

The main objective of this project is to classify student questionnaires with sentiment analysis method in order to know the questionnaire with negative and positive opinion.