**ACI Assignment 2**

**Question 9 – Blogger data Processing for decision making**

Blogger data

[https://archive.ics.uci.edu/ml/datasets/BLOGGER#](https://archive.ics.uci.edu/ml/datasets/BLOGGER)

Download the data set consisting of the actual data and the data set information is given in the webpage.

You are required to do the following:

Question 1: Python

1. Construct a Bayesian Belief Network for the given data.

Use appropriate methods to predict the following:

1. Predict the probability of data having the following values : Education: high, Political caprice: left, Topics: political, Local Media Turnover: yes, Local Political and Social Space: yes, who is a professional blogger.
2. Predict the class with the following attribute values: A blogger with a high education level, who has middle political caprice, who blogs about travel and tourism with no local media turnover and has local political and social space.
3. Infer the probability for the data : with values : Low education, left caprice, who blogs on news and has local media turnover and has political and social space but is not a professional blogger.

Question 2: Prolog

1. Use Any of the decision tree algorithms to build a decision tree for the given data
2. Create rules from the decision tree.
3. Code the rules into a Prolog Knowledge base
4. Get the data about the blogger from the user and predict the blogger type.