# Maulana Azad National Institute of Technology, Bhopal
## Computer Science and Engineering

## Subject: Machine Learning
## Assignment 3

**Q1. Assess a student performance using Naïve Bayes classification method. Predict whether a student gets a job offer or not in final course. The training dataset is shown below:**

| CGPA | Interactiveness | Job offer |
|------|-----------------|-----------|
| 9.5  | Yes             | Yes       |
| 8.2  | No              | Yes       |
| 9.3  | No              | No        |
| 7.6  | No              | No        |
| 8.4  | Yes             | Yes       |
| 9.1  | Yes             | Yes       |
| 7.5  | Yes             | No        |
| 9.6  | No              | Yes       |
| 8.6  | Yes             | Yes       |
| 8.3  | Yes             | Yes       |

**Make the prediction for Test Data (8.5, Yes). Show complete calculation.**