

# ML Lab (CS360)

## Assignment E3

**Total Marks: 10 marks**

1. Implement the Fuzzy C-means clustering algorithm (own code with  $K = 3$ ) using the IRIS dataset. Report the results using the silhouette coefficient and SSE indices. Also report the final partition matrix.
2. Compare the result of the above-mentioned technique with the K-means (you can use library function for K-means) algorithm using silhouette coefficient.

Marks distribution:

1. Implementation of Fuzzy C-means [5]
2. Reporting of **well organize** results [2]
3. Viva related to all the topics covered in the class till now.  
Two/Three questions will be asked and each will carry one mark [3]

Note:

3. If the implementation is accurate but the student is unable to explain it, the total evaluation score will be zero.

**Please do not copy anyone's code. Try to learn to code.**

Thank you  
Happy learning