

# README

ENROLLMENT NO: BT16CSE012

NAME: Rinisha Gedam

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## IMPLEMENTATION OF SLP (GENERALIZED - Works for all datasets)

DATASET USED: The Monk's Problems

Once upon a time, in July 1991, the monks of Corsendonk Priory were faced with a school held in their priory, namely the 2nd European Summer School on Machine Learning. After listening more than one week to a wide variety of learning algorithms, they felt rather confused: Which algorithm would be optimal? And which one to avoid? As a consequence of this dilemma, they created a simple task on which all learning algorithms ought to be compared: the three MONK's problems.

No. of Attributes: 7

No of classes: 2

No of samples: 556

Total no of samples are divided in Training Dataset and Testing Dataset.

No of Samples in Training Dataset: 300

No of samples in Testing Dataset: 256

The ZIP folder is consist of:

1. SLP.c Code
2. Training\_Dataset.txt
3. Testing\_Dataset.txt

Compile command: gcc SLP.c and ./a.out

When Compiled SLP.c , console displays:

1. Training Phase
  - a. Misclassification Epoch and Input no.
  - b. Updated Weights
2. Testing Phase
  - a. Classification and Misclassification Epoch and Input no.
  - b. Count of Misclassified and Classified Samples
  - c. Accuracy of SLP