Probabilistic Machine Learning
(July - December 2022**)**

Assignment 2 (Underline**Graded**)

Evaluation Date : 11/11/22

<u>Group E</u>

1. Implement Linear Regression using Metropolis Hastings and Hamiltonian Monte Carlo. (Use Stan Packages)

<u>Group D</u>

2. Implement Logistic Regression using MH and HMC. (Use Stan)

<u>Group C</u>

3. Implement Expectation Maximization algorithm

<u>Group B</u>

4. Implement Hidden Markov Models

<u>Group A</u>

5. Implement Topic Models with the use of Gibbs Sampling.

Note : Use any Stan package for Python implementation or hmclearn for R. You may consider any simple dataset of your choice for the experiments.