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| **Laboratory Practice V**  **Deep Learning Lab** | | | | | |
| **Sr.No.** | **Title** | **Dates** | | | |
| Batch **B4** | Batch **B5** | Batch **B6** |
| **1** | Boston housing price prediction problem by Linear regression | **6/01/2025** | **7/01/2025** | **8/01/2025** |
| **2a** | Multiclass classification using Deep Neural Networks: Example: Use the OCR letter recognition dataset | **13/01/2025** | **14/01/2025** | **15/01/2025** |
| **2b** | Binary classification using Deep Neural Networks Example: Classify movie reviews into positive" reviews and "negative" reviews | **20/01/2025** | **21/01/2025** | **22/01/2025** |
| **3** | classify fashion clothing into categories | **3/02/2025** | **28/01/2025** | **29/01/2025** |
| **MiniProj1** | Human Face Recognition | **28/04/2025** | **29/04/2025** | **30/04/2025** |
| **MiniProj2** | Gender and Age Detection |  |  |  |
| **MiniProj3** | Colorizing Old B&W Images |  |  |  |

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| **High Performance Computing** | | | | |
| **1a** | Design and implement Parallel Breadth First Search based on existing algorithms using OpenMP. Use a Tree or an undirected graph for BFS and DFS | **10/02/2025** | **4/02/2025** | **5/02/2025** |
| **1b** | Design and implement Parallel Depth First Search based on existing algorithms using OpenMP. Use a Tree or an undirected graph for BFS and DFS | **17/02/2025** | **11/02/2025** | **12/02/2025** |
| **2a** | Write a program to implement Parallel Bubble Sort using OpenMP. Use existing algorithms and measure the performance of sequential and parallel algorithms. | **24/02/2025** | **25/02/2025** | **05/03/2025** |
| **2b** | Write a program to implement Parallel Merge sort using OpenMP. Use existing algorithms and measure the performance of sequential and parallel algorithms | **3/03/2025** | **4/03/2025** | **26/03/2025** |
| **3** | Implement Min, Max, Sum and Average operations using Parallel Reduction. | **17/03/2025** | **18/03/2025** | **2/04/2025** |
| **4a** | Write a CUDA Program for :  1. Addition of two large vectors | **7/04/2025** | **8/04/2025** | **9/04/2025** |
| **4b** | 2. Matrix Multiplication using CUDA C | **21/04/2025** | **15/04/2025** | **16/04/2025** |
| **5** | MINI Project | **28/04/2025** | **22/04/2025** | **23/04/2025** |