***Course Learning Objectives:***

By the end of this workshop the participants will

1. Understand the distributed architectures for handling big data processing.
2. Install HPCC distributed systems platform and learn ECL programming language constructs
3. Perform data analysis, and carryout machine learning tasks on publicly available datasets using HPCC Systems platform.

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| **Day &Date** | **Time** | **DAY I** | **Speaker** |
| Thursday  06/05/24 | Morning  9:15–11:30 am | Installation and configuration of HPCC Systems Platform and ECL IDE  ECL Declarative Programming Language, ECL IDE, ECL WATCH, ECL Basic Syntax, ECL Actions, ECL  Scope and Logical Filenames, Dataset and Record set, Spraying Data & Despraying | **Prashant**  **Ronad**  **&**  **Prof. JS** |
|  | 11:30-12:00 | **break** |  |
| Thursday  06/05/24 | Afternoon  12:00-1:30 pm | Definitions, ECL SCOPE, ECL Datatypes and Operators. Sample ECL program deployment and execution  Aggregate functions, filtering of data, Conditional Statements | **Prashant**  **Ronad**  **&**  **Eshaan Mathur** |
|  | 1:30-2:30 | **break** |  |
| Thursday  06/05/24 | Afternoon  2:30-4:30 pm | Math functions, ECL functions, Standard library functions  Lab Exercises - I | **Skanda PR** |
|  |  | **DAY II** |  |
| Friday  07/05/2024 | Morning  9:15-11:30 am | SORT, DEDUP, TABLE, TRANSFORM, PROJECT, ITERATE, ROLLUP, JOIN functions | **Eshaan Mathur**  **&**  **Skanda P R** |
|  | 11:30-12:00 | **break** |  |
| Friday  07/05/2024 | Afternoon  12:00-1:30pm | Lab Exercises - II  Visualization bundle, Python embedding | **Prashant**  **Ronad** |
|  | 1:30-2:30 | **break** |  |
| Friday  07/05/2024 | Afternoon  2:30-4:30 | ML (linear, logistic and GNN bundle) | **Nikhil Vasu** |