Dask

Instructors:

Imran:

Working as Data Scientist with experience in solving real world business problems across different domains.

Curriculum:

Introduction

• The course Overview Preview

• Introduction to Dask Preview

• Dask Alternatives

• Advantages of using dask

• Limitations of task

• Dask Setup Preview

Understanding dask arrays

• Introduction to blocked algorithms

• Hands on with DASK Arrays

• Digging deeper into dask arrays

• performance comparision with numpy arrays Preview

• creating universal numpy functions with dask

• Limitations of Dask

Parallelizing python code with DASK

• Lazy Evaluation

• using dask.delayed

• understand task graphs

Understanding Dask Dataframes

• Introduction to dask dataframes

• exploring dask dataframes

• creating dask dataframes

• loading large datasets with dask dataframes

• analyzing data with dask dataframes

• limitations of dask dataframes

Exploring Dask Bags

• Introduction to dask bags

• creating and storing dask bags

• manipulating dask bags

• word count example using dask bags

• Limitations of Dask Bags

Distributed computing with dask

• overview of distributed computing with dask

• setting up your dask cluster

• understanding dask schedulers

• Exploring dask dashboard UI

Machine Learning with Dask

• Introduction to dask ML Preview

• using dask ML for regression

• using dask ML for Classification