ASSIGNMENT – 28-12-2023 YAZHINI S

**AZURE DATABRICKS**

Azure Databricks provides tools that help you connect your sources of data to one platform to process, store, share, analyze, model, and monetize datasets with solutions from BI to generative AI.

The Azure Databricks workspace provides a unified interface and tools for most data tasks, including:

* Data processing workflows scheduling and management.
* Generating dashboards and visualizations.
* Managing security, governance, high availability, and disaster recovery.
* Data discovery, annotation, and exploration.
* Machine learning (ML) modeling, tracking, and model serving.
* Generative AI solutions.

**AZURE VIRTUAL MACHINES**

Azure virtual machines can be used in various ways. Some examples are:

* Development and test – Azure virtual machines offer a quick and easy way to create a computer with specific configurations required to code and test an application.
* Applications in the cloud – Because demand for your application can fluctuate, it might make economic sense to run it on a virtual machine in Azure. You pay for extra virtual machines when you need them and shut them down when you don’t.
* Extended datacenter – virtual machines in an Azure virtual network can easily be connected to your organization’s network.

**AZURE DATA FACTORY**

Azure Data Factory is the platform that solves such data scenarios. It is the cloud-based ETL and data integration service that allows you to create data-driven workflows for orchestrating data movement and transforming data at scale.

**AZURE DEVOPS**

Azure DevOps supports a collaborative culture and set of processes that bring together developers, project managers, and contributors to develop software. It allows organizations to create and improve products at a faster pace than they can with traditional software development approaches.

**AZURE DATALAKE**

Azure Data Lake Analytics is a distributed analytics service to develop and run parallel transformation and processing programs on big data. Data Lake Analytics supports data transformation and processing programs in U-SQL, R, Python and . NET.

