Self Intro:

Hi, I'm Obulesu g, an Azure Data Engineer with 4 years of experience in building and managing data pipelines on the Azure cloud platform. I specialize in tools like Azure Data Factory, Databricks, and Azure Data Lake, where I design efficient and scalable solutions for both batch and real-time data processing.

I have strong expertise in using PySpark,Python and SQL for data transformation, as well as automating workflows to ensure smooth data operations. I collaborate effectively with cross-functional teams using GitHub for version control and Jira for project tracking, ensuring timely delivery and high-quality data solutions.

Health Care Project Flow:

_____Health care projects is to maintain the records of patients name,age,diseases,address and the medication which given by the doctors.

Project Definition & Requirements Gathering:

- Define the objectives (e.g., patient monitoring, disease prediction, fraud detection).
- Identify data sources (EHRs, IoT devices, medical imaging, insurance claims).

Data Ingestion & Storage:

- **Data Sources**: IoT sensors, hospital databases, medical records, claims data.
- **Azure Services Used**:
    - **Azure Data Factory** (ETL pipelines)
    - **Azure IoT Hub** (for IoT-based healthcare data)
    - **Azure Blob Storage** (raw & processed data storage)
    - **Azure SQL Database / Cosmos DB** (structured/unstructured data)

Data Processing & Transformation:

- **Azure Services Used**:
    - **Azure Databricks** (big data processing using Spark)
    - **Azure Synapse Analytics** (for large-scale data analytics)
    - **Azure Data Lake** (store processed data for further analysis)
    - **Azure Functions** (real-time data processing)

Data Analysis & Machine Learning:

- **Azure Services Used**:
    - **Azure Machine Learning** (for predictive analytics and AI modeling)
    - **Cognitive Services** (for NLP, speech recognition, image analysis)
    - **Power BI** (for interactive dashboards & visualization)

Security & Compliance Implementation:

- **Azure Services Used**:
    - **Azure Security Center** (security monitoring)
    - **Azure Key Vault** (sensitive data protection)

Deployment & Monitoring:

- Deploy models using **Azure Kubernetes Service (AKS)** or **Azure Functions**.
- Monitor real-time analytics via **Azure Monitor** & **Log Analytics**.
- Implement alerting systems using **Azure Logic Apps**.

Reporting & Insights

- Generate insights using **Power BI**.
- Automate reports using **Azure Data Factory** & **Power Automate**.