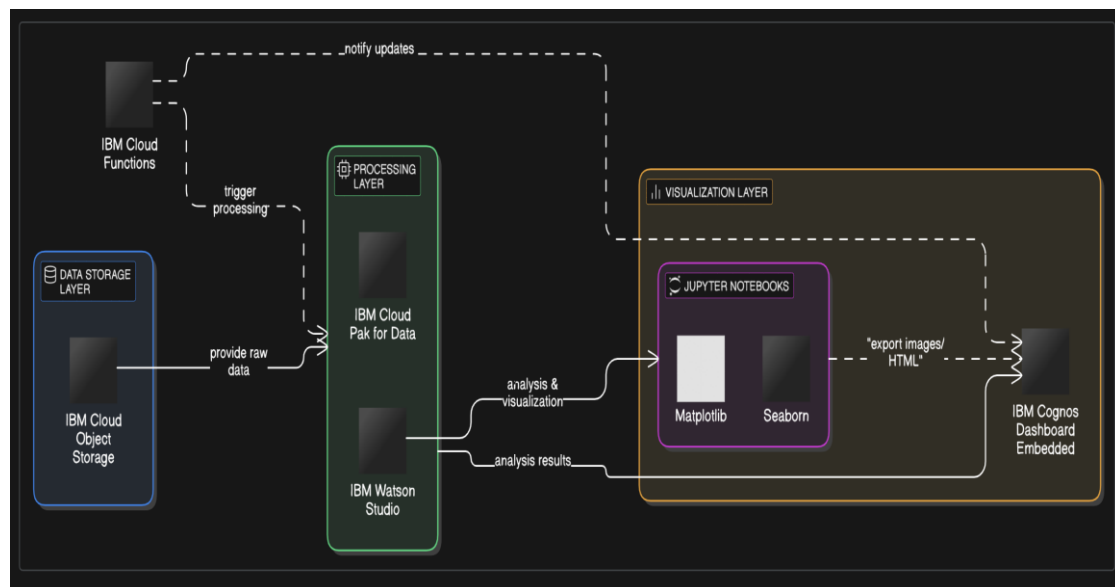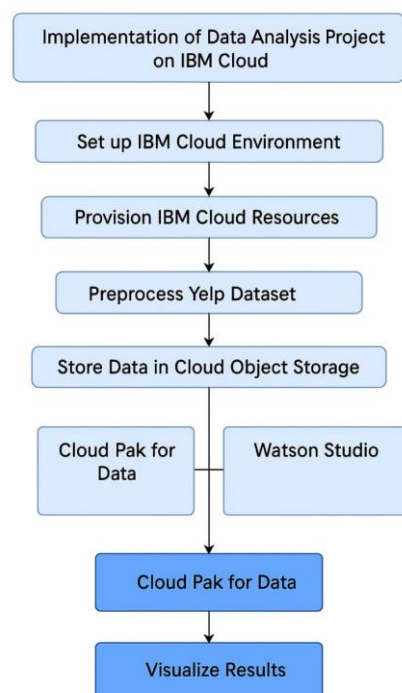# INTERNSHIP PROJECT PHASE- DESIGN

PROJECT 6 – DEVELOPMENT AND TESTING OF YELP DATA ANALYSIS PROJECT ON IBM CLOUD

1.CLOUD ARCHITECTURE

2.IMPLEMENTATION ON IBM CLOUD

3. DESIGN

IBM Cloud Setup

User Type
- Existing User
- New User

Create IBM Cloud Account (New User)

Login to IBM Cloud Account (Existing User)

Provision Object Storage Instance

Provision Watson Studio Instance

DATA PREPARATION
- Upload Yelp Checkin Dataset
- Upload Yelp Business Dataset

PROJECT INITIALIZATION
- Launch Watson Studio
- Create New Project
- Associate Object Storage with Project
- Create Jupyter Notebook
- Import Datasets with Pandas

DATA ANALYSIS

EXPLORATORY DATA ANALYSIS

Summarize Data

Check Missing Values

Groupby Analysis

Visualize Distribution

CHECK-IN DATA ANALYSIS

Extract Date and Time Features

Aggregate Check-In Counts

Merge with Business Data

VISUALIZATION

Build Visualizations with Seaborn or Matplotlib

Integrate IBM Cognos Dashboard

Interactive Dashboards and Insights