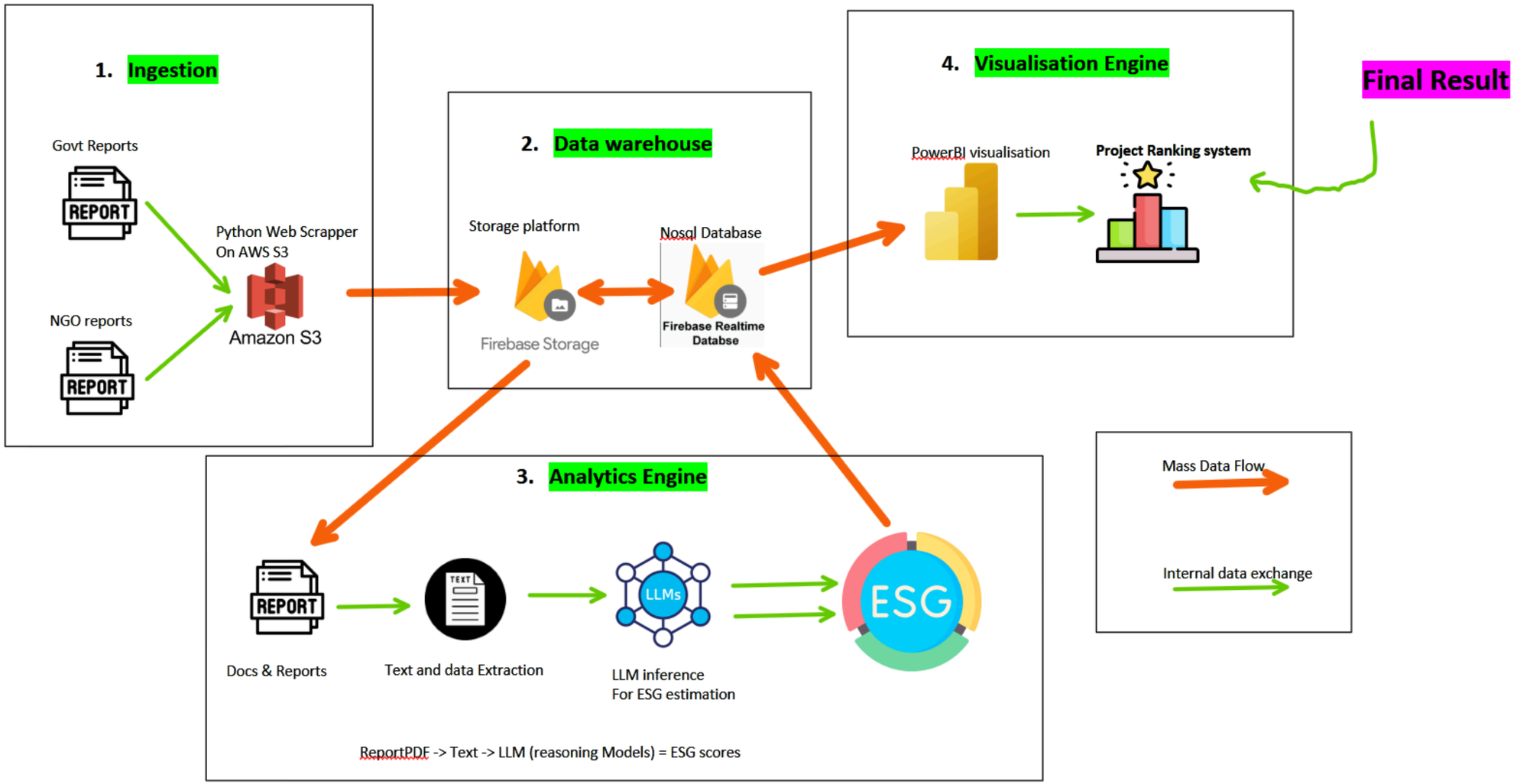
GREEN FINANCE OPTIMIZATION PLATFORM

TEAM: ALPHA SCOUT

GitHub: https://github.com/Michael-Pio/GreenFinance_IITM_Event/tree/main

Green Finance Optimization Diagram



WORK FLOW

1. INGESTION (STEP 1):

DATA IS COLLECTED FROM GOVERNMENT AND NGO REPORTS USING A PYTHON WEB SCRAPER HOSTED ON AWS S3

2. DATA WAREHOUSE (STEP 2):

E COLLECTED DATA IS STORED ON A PLATFORM (FIREBASE ORAGE) AND ORGANIZED IN A NOSQL DATABASE (FIREBASE REALTIME DATABASE).

3. ANALYTICS ENGINE (STEP 3):

THE STORED REPORTS ARE PROCESSED TO EXTRACT RELEVANT TEXT AND DATA.

LARGE LANGUAGE MODELS (LLMS) ANALYZE THIS DATA TO ESTIMATE ESG (ENVIRONMENTAL, SOCIAL, AND GOVERNANCE) SCORES.

4. VISUALIZATION ENGINE (STEP 4):

THE ESG SCORES AND DATA ARE VISUALIZED USING POWER BI.

A PROJECT-RANKING SYSTEM IS CREATED BASED ON THE ANALYZED DATA, GIVING A CLEAR RESULT FOR DECISION-MAKING.