6G DAta and ML Operations Automation via an End-to-end AI Framework

6G-DALI eager to revolutionize the AI-driven automation in 6G, by providing the first of its kind e2e experimentation platform

Project:
101192750 - 6G-DALI

Call:
HORIZON-JU-SNS-2024

Project starting date:
1 January 2025

Project duration:
36 months

Partners:
13

in 6G-DALI   X 6GDali   ▶ 6GDALI

OBJECTIVES

Objective 1
Deliver a user-friendly e2e AI framework for DataOps and MLOps in 6G

Objective 2
Deliver Gaia-X and Extract Load Transform (ELT) approaches for DataOps in 6G environments

Objective 3
Streamline 6G testbed's trustworthy AI/ML operations via MLOps and AutoML

Objective 4
Deliver plug-able adapters to easily integrate 6G testbeds from future calls

Objective 5
Build and Integrate a Digital Twin Testbed to generate representative datasets for 6G

Objective 6
Ethical data sets and validation methodologies and legislative compliance

Objective 7
Dissemination, Communication, Exploitation and Standardization

USE CASES

1 Data management and experiment on demand
— Data on-demand and enhanced ELT pipelines
— Data search and extraction via Gaia-X service catalogue

2 AIaaS for Content Delivery Network apps via cross-testbed decentralized MLOps
— Hyperparameter optimization and placement of ML models at the Cloud-Edge-Continuum
— ML model benchmarking and drift detection during vertical application testing

3 Digital Twins Testbed and RLOPS for large and medium-scale experiments
— Medium-scale DT experimentation for O-RAN
— Large-scale experimentation for RLOps