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

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

Project:
101192750 - 6G-DALI
Project starting date:
1 January 2025
Call:
HORIZON-JU-SNS-2024
Project duration:
36 months
Partners:
13

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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

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