

# LSTF Task Scheduling Simulator

## ● Overview

This Streamlit-based app implements “Least Space-Time First (LSTF) Scheduling for task scheduling in Directed Acyclic Graphs (DAGs)”.

It supports:

- ❖ Automatic task assignment to multiple processors.
- ❖ Communication cost integration\*\* between dependent tasks.
- ❖ Interactive DAG visualization & real-time execution animation.

## ● Features

- ❖ Upload CSV or manually enter tasks.
- ❖ View dependency graph with communication delays.
- ❖ Real-time task execution animation.
- ❖ Filter tasks by processor or execution range.
- ❖ Download results as CSV.

## ● Installation

To run locally, install dependencies:

```
pip install -r requirements.txt
```