

Smart Task Manager with Analytics & ML Readiness

Overview

Smart Task Manager is a CLI-based task management system designed with clean architecture, analytics, and machine-learning readiness. The project focuses on real engineering practices, not feature bloat or fake ML claims.

Core Features

- Create, list, complete, and delete tasks
- Persistent JSON storage
- Priority-based task handling
- Unique task IDs

Analytics

- Task completion statistics
- Daily creation and completion trends
- Average completion time analysis

Machine Learning (Preparation)

- Feature extraction from completed tasks
- ML-ready CSV dataset export
- Baseline comparison to avoid fake ML claims

Architecture

CLI → Services → Storage → Analytics / ML

Tech Stack

- Python 3
- JSON persistence
- Pytest for testing
- CLI-based interface

Engineering Principles

- Separation of concerns

- Test-driven debugging
- Incremental development
- Discipline in project closure

Status

Project completed and intentionally closed.