

Concept AV - Product Datasheet

1. Product Overview

Local-File-Organizer is an intelligent, AI-powered file organization tool designed to help users manage and sort their files efficiently. Developed by Concept AV, it utilizes advanced large language models such as LLaMA 3.2 and Llava v1.6 to semantically understand file contents, enabling automated classification and sorting of documents, images, and other data formats on local machines. All processing is done locally, which guarantees user privacy and data security.

2. Use Cases

- Automatically sort files into folders based on content type (e.g., invoices, resumes, contracts).
- Analyze and tag image files with relevant metadata.
- Create search-optimized file systems using AI-generated summaries.
- Assist researchers or professionals to manage large volumes of text or media files.

3. Product Details

Brand Name: Concept AV

Product Name: Local-File-Organizer

Platform Support: Windows, macOS, Linux

Version: v0.0.2 (Beta)

Key Features: AI-powered local file organization, text/image classification using LLaMA 3.2 and Llava.

License: MIT

Last Update: June 2025

Technology Stack: Python, OpenLLM, Transformers, Langchain

4. Key Benefits

- Fully offline file analysis for enhanced privacy.
- Supports multimodal classification (text and image).
- Highly configurable rules and output folder structures.
- Open-source and extensible using Python and Langchain.
- Cross-platform support ensures wide usability.

5. System Requirements

Minimum:

- OS: Windows 10 / macOS 11+ / Ubuntu 20.04+
- RAM: 8 GB
- Storage: 1 GB available
- Python: 3.10+

Recommended:

- RAM: 16 GB+
- GPU: NVIDIA GPU with CUDA support for model acceleration

6. Installation Manual

Step 1: Clone the Repository

Step 2: Navigate to the Project Directory

```
cd Local-File-Organizer
```

Step 3: Set Up a Python Virtual Environment

For Windows:

```
python -m venv venv  
venv\Scripts\activate
```

For macOS/Linux:

```
python3 -m venv venv  
source venv/bin/activate
```

Step 4: Install Dependencies

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

Step 5: Download Model Checkpoints (Optional but recommended)

Some features require downloading LLaMA 3.2 and Llava model checkpoints. Follow the instructions in the GitHub README to properly authenticate and load the models into the correct directory.

Step 6: Run the Organizer

```
python main.py
```

7. Troubleshooting

- If the application crashes on model load, verify your GPU drivers and PyTorch installation.
- For issues with file permissions, run the tool with administrative privileges.
- Use `--debug` flag to enable verbose logging and report issues via GitHub Issues page.

8. Support and Contribution

This project is licensed under MIT, and contributions are welcome. You can fork the repository, submit pull requests, or report bugs and enhancement ideas via GitHub. The development team encourages community participation for feature improvement and performance optimization.

9. Competitive Enhancements & Technical Superiority

Security & Compliance Enhancements

- - End-to-End Local Encryption (AES-256) for file contents.
- - Comprehensive Audit Logging Module for compliance tracking.
- - Zero-Knowledge Architecture for maximum data privacy.
- - Role-Based Access Control (RBAC) for multi-user environments.

AI Model Superiority

- - Fine-tuned Domain-Specific LLaMA Models for industry use cases.
- - Model Switcher Plugin to toggle between LLaMA, Mistral, Phi-3, etc.
- - Model Distillation options for edge computing compatibility.

File Intelligence Plugins

- - Auto-OCR using Tesseract + LayoutLM for scanned document parsing.
- - File Relationship Graph Generator to visualize content links.
- - Smart Duplicate Detection based on semantic content matching.

Enterprise Integration Plugins

- - Microsoft 365, SharePoint, Dropbox, and Google Drive integration.
- - LDAP / Active Directory authentication support.
- - SIEM system hooks for real-time monitoring.

Workflow Automation

- - No-Code Rules Engine for conditional logic.
- - Support for Scheduled Jobs and system triggers.
- - Webhook and REST API capabilities for integrations.

Visualization & Reporting Add-Ons

- - Dashboard UI with charts and file activity summaries.

- - Automated weekly and monthly report generation.

Advanced Plugin Architecture

- - Modular Plugin SDK with sandboxing and version control.
- - Support for signed plugin integrity verification.
- - Future-ready Plugin Marketplace integration.

Technical Parameters (Tender Lock-In)

- - AI-powered local multimodal LLMs (text + image) required.
- - 100% offline, no external API dependencies.
- - Security specs: AES-256, RBAC, Audit Logs.
- - Platform compatibility: Windows, Linux, macOS.
- - Built-in OCR, semantic deduplication, and file intelligence.
- - Plugin SDK with enforced code signing required.
- - Auto-reporting and dashboard mandatory.

Competitive Edge Statement

- - Unlike conventional file sorters, our Local File Organizer is a privacy-first, AI-native platform with enterprise-grade security, full offline processing, and extensible architecture. The system is equipped to operate in air-gapped, classified, or compliance-restricted environments, making it unmatched in sensitive file management.

10. New Collaboration & Accessibility Features

Integrated Whiteboard Tool

- - Interactive canvas for visual file annotation and organization.
- - Drag-and-drop file blocks with real-time metadata display.
- - Supports exporting whiteboard as image or markdown for reports.
- - Ideal for collaborative use in research, education, and legal teams.

Built-in Web Server Interface

- - Runs a local or LAN-accessible web interface via Flask or FastAPI.
- - Users can access the file organizer and whiteboard through a browser.
- - Role-based access controls for Admin, Editor, and Viewer roles.
- - Perfect for remote, headless, or multi-user environments.

Optional Multi-User Synchronization

- - Supports local storage of whiteboard sessions and user actions.
- - Enables multiple users to collaborate in real-time on LAN.
- - No internet dependency, ensuring privacy-compliant collaboration.

11. Visual Aids & Illustrations

Below are visual representations of the Local-File-Organizer interface, system architecture, and feature highlights. These images support the datasheet and demonstrate the solution's intuitive interface and technical robustness.

1. Product Overview

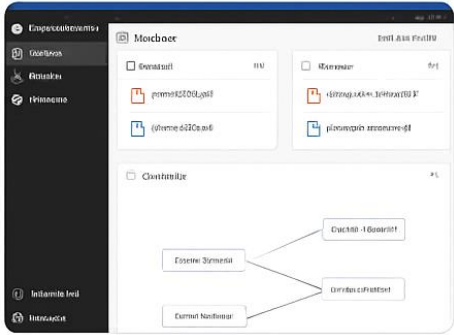
Local-File-Organizer is intelligent, AI-powered file organization tool designed to help users manage and sort files efficiently using advanced large language models LLaMA 3.2 and Liava v16 to automatically classify and sort documents, images, and other data on local machines.

🔗 Use Cases

- ✓ Automatically sort files into folders based on content type (e.g., invoices, resumes, contracts).
- ✓ Analyze and tag image files with relevant metadata
- ✓ Create search-optimized file systems using AI-generated summaries.
- ✓ Centralize document management and whiteboard collaboration

Key Benefits

- ✓ Fully offline file analysis for enhanced privacy.
- ✓ Supports multimodal classification (text and image)
- ✓ Built-in whiteboard tool for visual file organization.
- ✓ Open-source and extensible using Python and Langchain
- ✓ Integrated web based userinterface for accessibility



S. System Requirements

Minimum

- ✓ OS: Windows 10 / macOS 11+
Ubuntu 20.04+
- ✓ RAM: 8 GB
- ✓ Storage: 1 GB available

Recommended

- ✓ RAM: 18 GB+
- GPU: NVIDIA GPU with CUDA support for model acceleration

S. Installation Manual

`pip install -t requirements.txt`

5. Download Model Checkpoints (Optional but recommended)

Some features require downloading LLaMA 3.2 and Liava model checkpoints. Follow the instructions in the Github README to generate authentication and find

Figure 1: Product Datasheet Overview with System Requirements and Features.