Ags■AI User Guide

A complete, non■technical guide for running, understanding, and sharing Ags■AI.

1) What Ags■AI Is

Ags■AI reads your soil and leaf test results and compares them with MPOB standards, highlighting gaps and generating a PDF report.

2) What You Can Do

- Upload soil/leaf data

- See Nutrient Gap Analysis (Critical → Low → Balanced)

- Export a matching PDF

3) Requirements

- Windows 10/11, Python 3.10+, browser

4) Quickstart

1. `python -m venv .venv`

2. `.\.venv\\Scripts\\activate`

3. `pip install -r requirements.txt`

4. Copy `.streamlit/secrets.example.toml` to `.streamlit/secrets.toml`

5. `streamlit run app.py` → open `http://localhost:8501`

5) Uploading Data

Use the Upload page; examples are in `json/`.

6) Reading Results

Severity by absolute percent gap:

- Balanced ≤ 5%

- Low 5–15%

- Critical > 15%

7) Exporting PDF

Use the export option; PDF matches the on■screen tables.

8) Configuration

Edit `.streamlit/secrets.toml`. Minimal local:

```
[app]
environment = "production"
log_level = "INFO"
```

9) Deployment Options

- Local Windows

- Streamlit Cloud

- Docker

10) Troubleshooting

- Update pip if install fails: `pip install -U pip`

- Try sample files in `json/` to validate

11) Where Things Live

- Start: `app.py`

- Results tables: `modules/results.py`

- PDF: `utils/pdf_utils.py`

- Engine: `utils/analysis_engine.py`

- Config: `.streamlit/secrets.toml`