# IF Insurance AI Demo — User Guide

Version: 1.0

#### **Overview**

The Insurance Claims Analyzer helps analyze claims and invoices against policy contracts and evaluate images with built-in fraud detection.

- Claims document extraction and comparison
- Invoice support (PDF and image invoices)
- Fraud detection for documents and images
- Image damage analysis with false positive/negative scoring
- Exportable JSON reports

## Requirements

- Python 3.10+
- OpenAI API key (required)
- Anthropic API key (optional)
- Recommended: pandoc for Markdown → PDF export

# Setup

1. Install and run

```
cd /home/julian/dev/hobby/insurance-demo
python -m venv .venv
source .venv/bin/activate
pip install -r requirements.txt
streamlit run Home.py
```

2. Create a .env file

```
OPENAI_API_KEY=your_openai_api_key
ANTHROPIC API KEY=your anthropic api key # optional
```

### **Data Folder**

Place documents and images under data/ (subfolders supported): - PDFs: claims, invoices, policy contracts - Images: . jpg, . jpeg, .png

### **Pages**

#### **Claims Check**

- Extract data from Claim, Invoice, Policy
- Compare side-by-side with discrepancies and recommendations
- Image invoices supported (analyze authenticity via Fraud Detection)

Workflow: 1. Add API key (sidebar or .env). 2. Use demo files or upload PDFs/images. 3. Extract Claim/Invoice/Policy. 4. Optional: include saved image analyses. 5. Compare to see mismatches and export report.

#### Fraud Detection (inside Claims Check)

- Select any file from data/ (PDF/image) via sidebar
- Detect doctored/fraudulent content and manipulation
- Output: risk score, authenticity, indicators, recommendations
- Export JSON report

#### **Image Detection**

- Analysis modes: Comprehensive, Damage Assessment, Fraud Detection, False Positive/Negative, OCR
- Use demo images from data/ or upload your own
- Save analyses for use in Claims Check
- Visualize severity/accuracy and export results

#### **Documentation**

- Download this guide (Markdown/PDF)
- Steps to regenerate PDF locally

## **API Keys**

- OpenAI required; Anthropic optional
- Load from .env and/or override in sidebars

#### **Exports**

- Claims comparison: JSON
- Image analysis: JSON or text
- Fraud detection: JSON
- User Guide: docs/if-insurance-ai-demo-user-guide. (md|pdf)

## **Regenerate PDF**

If pandoc is installed:

```
cd /home/julian/dev/hobby/insurance-demo
source .venv/bin/activate
pandoc docs/if-insurance-ai-demo-user-guide.md -o docs/if-insurance-
ai-demo-user-guide.pdf
```

If missing (Debian/Ubuntu):

sudo apt-get update && sudo apt-get install -y pandoc

# **Troubleshooting**

- API key required: add via .env or sidebar
- PDF not generated: install pandoc
- Slow on large files: try smaller inputs
- Anthropic model without key: switch to OpenAI or add key

# **Privacy & Security**

- Avoid uploading sensitive data without proper agreements/consent
- Consider redaction of personal data

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