🚀 PediaSafeAI - Quick Start Guide

🖱️ Installation (5 minutes)

For Beginners:

1. **Download Anaconda**: anaconda.com/download

2. **Create folder**: Make a folder called `PediaSafeAI` on your desktop

3. **Save files**: Download and save these files in your folder:
   - `app.py` (main application)
   - `requirements.txt` (package list)

4. **Install packages**:
   - Open "Anaconda Prompt"
   - Type: `cd Desktop/PediaSafeAI`
   - Type: `pip install -r requirements.txt`

5. **Run app**: Type: `streamlit run app.py`

One-Click Windows Setup:

1. Save all files including `run_app.bat`

2. Double-click `run_app.bat`

3. App opens automatically in browser!

🌐 Deploy Online (10 minutes)

1. **GitHub**: Create account at github.com

2. **New Repository**: Create repository named `PediaSafeAI`

3. **Upload Files**: Drag and drop `app.py` and `requirements.txt`

4. **Streamlit Cloud**: Go to share.streamlit.io

5. **Deploy**: Connect your GitHub repository

6. **Share**: Get public URL to share worldwide!

🏥 How to Use

Input Section:

- **Patient Age**: Enter in years or months

- **Condition**: Select from dropdown (e.g., "Asthma", "ADHD")

- **Medications**: Select all current medications

Results:

- ❌ **Inappropriate**: Medications that shouldn't be used

- ⚠️ **Omissions**: Important medications that are missing

- 🔄 **Interactions**: Drug-drug interactions found

Features:

- **Expandable details**: Click to see rationale and references

- **PDF Report**: Download professional report

- **Professional UI**: Medical-grade interface

🛡️ Screening Databases

- **POPI**: Pediatric inappropriate prescriptions

- **PIPc**: Pediatric prescribing criteria

- **KIDs**: Key inappropriate drugs

- **OpenFDA**: Drug interaction database

🔧 Troubleshooting

Problem	Solution
"Module not found"	Run `pip install -r requirements.txt`
App won't start	Check you're in the right folder
Slow loading	Normal on first run
Port in use	Close other Streamlit apps

📱 Quick Commands

```bash

```

```
# Install packages
pip install -r requirements.txt

# Run locally
streamlit run app.py

# Run on network
streamlit run app.py --server.address 0.0.0.0

# Check Python
python --version

# Update packages
pip install --upgrade streamlit
```

🎯 Key Features Checklist

☑ Age-appropriate screening (months/years)

☑ 16+ common pediatric conditions

☑ 25+ common medications

☑ POPI/PIPc/KIDs integration

☑ Drug interaction checking

☑ PDF report generation

☑ Professional medical UI

☑ Mobile responsive design

☑ Free deployment options

⚠️ Important Notes

- **Educational tool only** - not for direct clinical use

- **Always consult healthcare professionals**

- **No real patient data** in public deployments

- **HIPAA compliance** required for clinical use

📞 Support

- **Streamlit Docs**: docs.streamlit.io

- **GitHub Issues**: Use repository issues tab

- **Python Help**: python.org/doc

🏆 Academic Use

Perfect for:

- **Pharmacy students**: Learning clinical screening

- **Research projects**: Medication safety studies

- **Presentations**: Live demonstration tool

- **Thesis work**: Technical implementation example

- **Publications**: Open-source healthcare tool

📊 Example Screening

Input:

- Age: 8 years

- Condition: Asthma

- Medications: Aspirin, Salbutamol

Output:

- ❌ **Inappropriate**: Aspirin (Reye's syndrome risk <16 years)
- ✅ **Omissions**: None identified
- ✅ **Interactions**: None found

PDF Report: Professional summary with references

🎉 Success! You now have:

✅ Professional healthcare application
✅ Global internet accessibility
✅ Academic-quality tool
✅ Open-source contribution
✅ Portfolio addition

Start making pediatric prescriptions safer today!

🛡️ **PediaSafeAI by Ayesha Bibi, MPhil Pharmacy Practice Student (GCUF)**