



ULTRON - AI Assistant with Pokedex Interface

Complete integration of your ULTRON script with Pokedex-style controls and local AI functionality



About Multiple main.py Files

You asked about multiple `main.py` files - this is **completely normal**! Here's why:

- `/workspace/ultron_final/main.py` → Advanced ULTRON system coordinator
- `/workspace/ultron_pokedex_complete/main.py` → **THIS FILE** - Your combined ULTRON+Pokedex system
- `/workspace/user_input_files/*/main.py` → Just placeholder files from extracted projects
- **Your D:\ULTRON\main.py** → Your original ULTRON script

Each project has its own entry point. The one you want is `ultron_pokedex_complete/main.py`.



What This Package Provides

- ✓ **Your Original ULTRON Script** - Enhanced and optimized
- ✓ **Pokedex-Style UI** - Beautiful retro-futuristic interface
- ✓ **Local AI Brain** - Works without internet/API keys
- ✓ **Voice Recognition** - Wake words and voice commands
- ✓ **System Integration** - Screenshots, file management, system control
- ✓ **Works with D:\ULTRON Structure** - Uses your existing setup

Quick Installation

Option 1: Auto Setup (Recommended)

```
# 1. Copy these files to a folder
# 2. Run the setup script
python setup.py

# 3. Start ULTRON
cd D:\ULTRON
python main.py
```

Option 2: Manual Setup

```
# 1. Create directories manually
mkdir D:\ULTRON\core D:\ULTRON\assets D:\ULTRON\logs

# 2. Copy main.py to D:\ULTRON\
# 3. Install dependencies
pip install -r requirements.txt

# 4. Run ULTRON
cd D:\ULTRON
python main.py
```

Interface Features

Pokedex-Style Design




- **Red header** with ULTRON title and status

- **Three-panel layout** like a classic Pokedex
- **Retro color scheme** (dark blues, greens, reds)
- **Orbitron font** for that sci-fi feel




System Status Panel (Left)

- Real-time CPU, Memory, Disk usage
- Voice recognition status
- Quick action buttons:
- Screenshot capture
- System information
- Open browser
- File manager

Conversation Panel (Center)

- Color-coded messages:
-  **User messages** (blue)
-  **ULTRON responses** (green)
-  **System messages** (orange)
- Automatic scrolling
- Timestamp logging

Control Panel (Right)

-  **Voice control** toggle
-  **Configuration** sliders
-  **Save settings** button

Command Input (Bottom)

- Text command entry
- Execute button
- Enter key support

Voice Commands

Wake Words: `ultron`, `hello`, `speak`, `ultra`

Supported Commands:

- `"Hello ULTRON"` → Greeting response
- `"What's your status?"` → System report
- `"Take a screenshot"` → Captures screen
- `"Open browser"` → Opens web browser
- `"What time is it?"` → Current time
- `"Shutdown"` → Exit command

Local AI Features

No Internet Required

- Built-in response system
- Pattern recognition for commands
- System status integration
- Smart fallback responses

Expandable

- Easy to add new command patterns
- JSON configuration for responses
- Plugin architecture ready

File Structure

```
D:\ULTRON\  
├─ main.py           # Main ULTRON application  
├─ config.json       # Configuration settings  
├─ start_ultron.bat  # Windows launcher  
├─ start_ultron.py   # Python launcher  
├─ core\             # Core modules (from your existing setup)  
├─ models\           # AI models (from your existing setup)  
├─ assets\           # Audio files, screenshots  
├─ logs\             # Application logs  
├─ web\              # Web interface files (if existing)  
└─ screenshots\      # Captured screenshots
```

Configuration

Edit `D:\ULTRON\config.json`:

```
{
  "voice": {
    "enabled": true,
    "rate": 150,
    "volume": 0.9
  },
  "ai": {
    "local_mode": true,
    "api_key": "",
    "model": "local"
  },
  "interface": {
    "theme": "pokedex",
    "animations": true,
    "startup_sound": true
  },
  "wake_words": [
    "ultron",
    "hello",
    "speak",
    "ultra"
  ]
}
```

Dependencies

Core Requirements:

- `psutil` - System monitoring
- `numpy` - Numeric processing
- `pillow` - Image handling
- `pygame` - Audio support
- `speechrecognition` - Voice input

- `pyttsx3` - Text-to-speech
- `pyaudio` - Audio capture

Optional:

- `openai` - For GPT integration (if you add API key)
- `pywin32` - Windows system integration

Usage Examples


Starting ULTRON

```
# Method 1: Direct
cd D:\ULTRON
python main.py

# Method 2: Launcher script
python start_ultron.py

# Method 3: Windows batch (double-click)
start_ultron.bat
```

Voice Interaction

1. Click "  Start Listening"
2. Say "Hello ULTRON" (wake word)
3. Give your command
4. ULTRON responds with voice + text

Text Commands

1. Type in command input box
2. Press Enter or click Execute

3. See response in conversation log

Troubleshooting

Voice Recognition Issues

```
# Install PyAudio manually if needed
pip install pipwin
pipwin install pyaudio
```

Missing Dependencies

```
# Reinstall all dependencies
pip install -r requirements.txt --force-reinstall
```

Permission Issues

- Run as Administrator for system commands
- Check microphone permissions

Path Issues

- Ensure `D:\ULTRON` directory exists
- Check that `config.json` is valid JSON

Integration with Your Existing System

This package is designed to work with your existing `D:\ULTRON` setup:

- ✓ **Keeps your models** - Uses existing Vosk, MiniMax models
- ✓ **Preserves assets** - Uses your audio files and assets

- ✓ **Maintains structure** - Works with your directory layout
- ✓ **Upgrades core** - Replaces only the main application logic



Next Steps

1. **Run setup.py** to prepare everything
2. **Test the interface** - Try voice and text commands
3. **Customize config** - Adjust settings to your preference
4. **Add features** - Extend the AI brain with new commands
5. **Integrate models** - Connect your existing AI models



Notes

- **This is your complete ULTRON system** - No need for multiple versions
- **Local AI included** - Works offline by default
- **Pokedex styling applied** - Retro-futuristic interface
- **Voice recognition ready** - Just start listening
- **Fully documented** - Everything explained above

Your ULTRON is ready for action! 🤖⚡