

# AI Job Search Automation System

## Overview

This project automates job searching, categorization, company research, and application submission using AI-driven filtering and web scraping. It also tracks job market trends over time.

## Features

✔ **Automated Job Search** – Fetches job listings from multiple platforms (Indeed, LinkedIn, Glassdoor) ✔ **AI-Powered Categorization** – Ranks job listings based on relevance to user preferences ✔ **Company Information Fetching** – Extracts company insights from online sources ✔ **Job Application Automation** – Sends applications with CV, cover letter, and portfolio ✔ **Dashboard Interface** – Provides a GUI for reviewing opportunities and applying instantly ✔ **Trend Analysis** – Tracks job availability trends over time ✔ **Automated Scheduling** – Runs daily via Task Scheduler (Windows) or Cron Jobs (Linux/macOS)

## Installation

```
pip install -r requirements.txt
bash create_executable.sh
python job_scheduler.py # Schedule automated execution
```

## Usage

Run the system manually:

```
python job_dashboard.py
```

Or let the **scheduler run it daily at 8 AM.**

## Project Structure

```
|— job_crawler.py      # Scrapes job listings from multiple sources
|— job_formatter.py    # Standardizes job listings and saves them as PDFs
|— ai_job_analysis.py  # AI categorizes jobs based on user preferences
|— company_info_fetcher.py # Fetches company profiles from online sources
|— job_application_sender.py # Automates job application emails
|— job_dashboard.py    # Provides a GUI to review and apply to jobs
|— job_trend_analysis.py # Tracks job market trends over time
|— job_scheduler.py    # Schedules automatic execution
|— job_settings.json   # Stores user preferences for job searches
|— README.md          # Documentation
|— LICENSE             # Open-source license
|— requirements.txt    # Python dependencies
|— create_executable.sh # Script to create a standalone executable
```

## License

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## Contributing

Pull requests are welcome! If you have suggestions, please open an issue first.

## Contact

For questions or suggestions, feel free to reach out!