

AI-based Medical Chronology Generator

Overview: This AI-based tool automates the creation of chronological medical histories from unstructured medical documents, generating clear, structured PDFs for legal, insurance, and healthcare purposes.

Purpose: The main objective is to streamline the process of compiling medical chronologies, reducing manual work and improving accuracy in legal and medical case preparations.

Core Features:

- Natural Language Processing (NLP) for document parsing
- Automated date extraction and sorting
- Generation of chronological medical events
- Export to well-formatted PDF
- Support for multiple medical document formats

Tech Stack: Python, spaCy, Pandas, ReportLab, Regex

System Requirements:

- Operating System: Windows 10 or later / Linux / macOS
- Processor: Intel i5 or equivalent
- RAM: Minimum 8 GB
- Python 3.9 or later

Workflow:

1. Upload unstructured medical documents
2. Parse documents using NLP and regex-based methods
3. Extract and standardize dates
4. Sort events chronologically
5. Generate formatted PDF report

Potential Use Cases:

- Legal firms preparing medical case files
- Insurance companies validating claims
- Hospitals maintaining patient history

Future Enhancements:

- Multi-language medical document support
- Integration with EMR systems
- Advanced AI summarization of medical events