TEAM MEDLY

TEAM MEMBERS:
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1. Title - Medley

MEDLY is an AI-powered health app that scans prescriptions, lab reports, and medical documents to explain health conditions in simple language. It provides personalized diet plans and meal-medicine timing based on medical findings, helping users eat right and heal better—while maintaining strict privacy and medical safety.

2. Objective

The objective of MEDLY is to simplify medical information for patients by using AI to analyze medical documents and provide clear health explanations, personalized diet plans, and proper meal and medicine timing to support better recovery and overall well-being.

3. Tools Used

MEDLY uses Optical Character Recognition (OCR) tools such as Google Vision or Tesseract to extract text from prescriptions, lab reports, and medical documents. Natural LanguageProcessing (NLP) models like Medical GPT or Clinical BERT are used to understand and simplify complex medical terms. Medical imaging AI models help analyze X-rays, CT scans, and MRI scans. The frontend is built using Flutter or React for a smooth user experience, while the backend uses Python or Node.js to handle data processing. All medical data is stored securely in HIPAA-compliant cloud databases with end-to-end encryption to ensure user privacy.

4. Methodology

Medical documents uploaded by users are processed using OCR to extract relevant data such as diagnosis, medicines, and test values. NLP models analyze this information to identify health conditions and severity levels. Based on the extracted data and user profile details, the system generates simplified explanations, personalized diet recommendations, and a daily meal and medicine schedule.

5. Output

The output of the project is a functional AI-based health application that provides medical report summaries, diet recommendations, and accurate meal and medicine timing. Users can view dashboards, download reports, and share results with doctors or caregivers.

6. Result

The MEDLY system successfully converts complex medical data into clear, patient-friendly information. It improves user understanding of health conditions and supports better dietary and medication adherence, demonstrating the effectiveness of AI in healthcare assistance.

7. Conclusion

This project demonstrates how AI can enhance patient care by simplifying medical information and providing personalized health guidance. MEDLY offers a secure, efficient, and user-friendly solution that supports better health decisions while not replacing professional medical advice.

8. Project Url

https://3000-87c49f67-42cb-4e35-8afa-d90833b8407c.orchids.page/

9. GitHub Profile

https://github.com/SALLAGARIGESPOORTHI

https://github.com/siripeechara07

https://github.com/Rajitha-29/MEDLY/blob/main/README.md

https://github.com/KATARAMNAVYASREE

https://github.com/mvnmounika/medly

https://github.com/yashwanth-937