Dept. of Computer Science and Engineering (Data Science)

Adichunchanagiri Institute of Technology, Chikkamagaluru

Mini Project Synopsis

TITLE: MediScan AI – Instant Patient History Retrieval & Emergency Aid

Problem Statement: This platform provides doctors with instant access to patient medical history using phone number, name and place. AI modules summarize history and highlight emergency risks, ensuring faster, safer treatment and preventing loss of life due to inaccessible records.

Description: The project aims to develop a Django-based backend with web and mobile applications that allow doctors to instantly access patient history during emergencies. Patient data can be retrieved using phone number, name and place. AI modules will enhance the system with Face recognition to identify patients from photos, summarizer to generate concise medical history, risk predictor to highlight emergency risks. Doctors can securely access this data anytime through web and mobile platforms, ensuring faster treatment and safer decisions.

Expected Outcomes: The outcome will be a functional Django-powered web and mobile application that enables doctors to quickly access patient history in emergencies. The AI modules will provide automatic face recognition, history summarization, and risk prediction. This system is expected to:

- Ensure faster treatment.
- Prevent mistakes related to drug allergies or chronic conditions.
- Save lives by delivering critical patient information instantly.

Technologies and Tools:

- **Languages:** Python, TypeScript (React.js, React Native).
- **Libraries/Frameworks:** Node.js with Express.js**,** REST Framework (backend), MedCAT(AI Summarization), Tesseract (OCR), Capacitor (web to mobile app).
- **Data Base:** MongoDB for patient record storage and retrieval.
- **Hardware:** Camera-enabled devices (smartphones, tablets, hospital systems).
- **Optional:** Git/GitHub (version control).

Team Members:

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Signature of the Guide with date **Signature of the Coordinator with date**