AI-ASSITED SURGICAL REGISTRATION AND LONGITUDINAL CASE DOCUMENTATION SYSTEM

About

The project aims to create an AI-enabled surgical registry and longitudinal data collection system for neurological units. It seeks to aggregate patient data including intraoperative findings, images, surgical interventions and follow-up outcomes into a centralized, searchable database.

Requirement

* AI-assisted summarization of patient notes.
* Detection of missing fields.
* Generation of structured case synopses.
* Automated reminders for follow-up data collection.
* Centralized surgical case registry.
* Searchable and filterable access to historical cases.

Software Libraries

* Machine learning and Deep learning.
* Natural language processing libraries.
* Integration with Electronic Health Records.

Hardware

* Server or Cloud Infrastructure.
* Edge Device or Mobile Devices.
* Hardware Accelerators.

Uses

* To enhance community of care.
* To streamline documentation.
* Preserves institutional memory.