## HEALTH MATRIX



Health Matrix is an innovative platform designed to streamline medical data management through automated data extraction, comparison, and visualization. By leveraging Natural Language Processing (NLP) and data visualization, the platform empowers healthcare providers and patients to make informed decisions quickly and accurately.

#### **Objectives**



#### Objective 1:

To create a streamlined system for data extraction using Natural Language Processing.



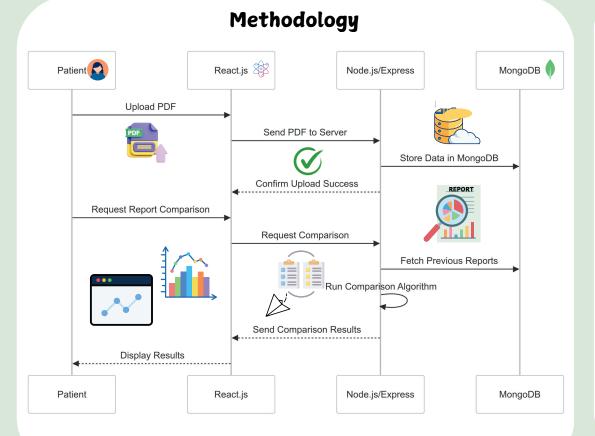
#### Objective 2:

To deliver comparison reports and actionable health insights through engaging visualizations

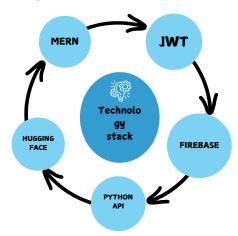


#### Objective 3:

To provide easy access to previous reports' entities using a Large Learning Model



### System Architecture



MERN Stack: Full-stack development with MongoDB, Express.js, React.js, and Node.js. Python API: For NLP and data extraction.

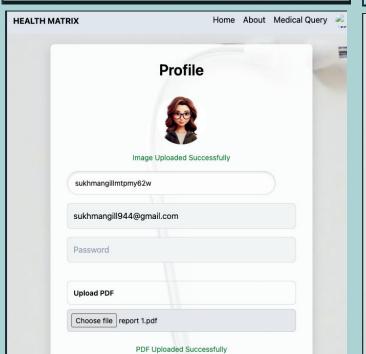
<u>Hugging Face LLM</u>: Integration of pretrained language models.

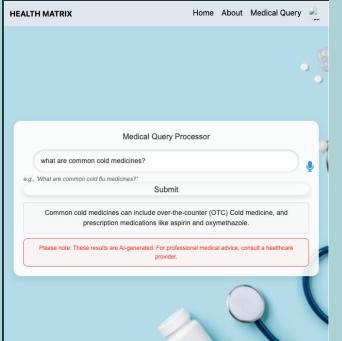
<u>Firebase</u>: Secure data storage.

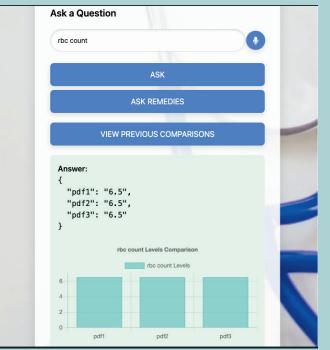
MongoDB: Retrieve download URLs from



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## FUTURE ENHANCEMENTS

- Al Integration for smarter insights and natural language
- Advanced Data Visualizations with customizable options.

queries.

 Mobile Compatibility for real-time access on various devices.

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