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International Journal For Research in  
Applied Science and Engineering Technology



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# **INTERNATIONAL JOURNAL FOR RESEARCH**

IN APPLIED SCIENCE & ENGINEERING TECHNOLOGY

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**Volume:** 13    **Issue:** XI    **Month of publication:** November 2025

**DOI:** <https://doi.org/10.22214/ijraset.2025.75497>

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# Recoguide: A Medical Report Analyzer

Mayur Pillewan<sup>1</sup>, Shobhit Bawangarh<sup>2</sup>, Sumit Jamaiwar<sup>3</sup>, Shounak Sontakke<sup>4</sup>, Sujal Dhote<sup>5</sup>, Sumit Kumbhalkar<sup>6</sup>,  
Shashank Jagattiwar<sup>7</sup>

<sup>1</sup>Assistant Professor, Department of Computer Science and Engineering, G H Rasoni University, Amravati Nagpur, MH, India

<sup>2, 3, 4, 5, 6, 7</sup>Department of Computer Science and Engineering, G H Rasoni University, Amravati, Nagpur, MH, India

**Abstract:** Medical reports are critical for the diagnosis, management, and follow-up of patients. However, they contain complex medical terminologies and are in unstructured forms, such as scanned documents or PDFs. This paper presents the development of a framework for the Medical Report Analyser, which aims to automate the extraction, analysis, visualisation, and interpretation of clinical information. The proposed system will convert unstructured reports into a digital format by employing OCR technology, utilise NLP methodologies for insight extraction, and have visualisation tools to present the findings effectively. Furthermore, the analyser applies explainable AI intended to achieve an efficient transformation of complex medical language into simple summaries for patients, while maintaining compliance with HIPAA and GDPR. The current research focuses on analysing the literature discussing the various methods, drawing a line on potential challenges, and inferring an all-around approach regarding improved health care access and clinical decision-making support. The framework is developed to incorporate various types of medical documents including but not limited to radiology reports, pathology results, and discharge summaries; therefore, suitable for various settings in healthcare facilities. Also, the incorporation of state-of-the-art AI strategies will reduce errors in data interpretation and facilitate smooth clinical workflows. Preliminary tests conducted on artificially generated datasets have been able to demonstrate an accuracy higher than 92% in the extracted data and a 25% reduction in the review time of health professionals. This evidence further points toward the applicability of the proposed framework for practical use.

**Keywords:** Medical Report Analyser, OCR, NLP, Healthcare AI, Clinical Decision Support, Explainable AI, Data Privacy, and Medical Document Processing.

## I. INTRODUCTION

The rapid digitization of healthcare records has created vast repositories of medical data in formats such as HL7, FHIR, and JSON, among others, and in unstructured scanned reports. Interpreting these records require domain expertise and are hence time-consuming. Incomprehensible to patients, yet clear to clinicians. The lack of efficient tools that can automatically extract and analyze and explanation of medical data constrains the full potential of data-driven healthcare innovations. A recent survey reported that Over 80% of clinical data remains unstructured, leading to inefficiencies in diagnosis and treatment planning [14]. Artificial Intelligence techniques, especially OCR and NLP offer the possibility to automate medical reporting interpretation. OCR allows the conversion of images and the documents into machine-readable text, while NLP enables semantic analysis of clinical notes, test results, and medical terminologies [1]. Moreover, visualization dashboards can support clinicians and patients in interpreting key findings, While explainable AI approaches can enhance accessibility. Emerging multimodal models combining text and imaging Data further extend these capabilities [15]. This paper proposes an AI-powered Medical Report Analyzer that integrates these technologies into one system. The main goals of the framework include

- 1) Automated extraction of structured and unstructured medical data from diverse sources, including handwritten Notes and digital scans. AI-powered analysis of medical terminologies and test results Patient histories are used to identify patterns and anomalies.
- 2) The patient health metrics visualization along with alerts for abnormalities, using interactive charts and graphs.
- 3) Simplified explanations adapted for patients that cut breaking down complicated terms into everyday language.
- 4) Ensuring data security and compliance with regulations through Encryption and access controls.
- 5) Scalable deployment across both cloud and edge environments for real-time processing. In addition to these goals, the framework addresses key challenges in AI in healthcare, such as interoperability between different data formats and the need for real-time processing in clinical settings.

For example, in emergency departments, A quick analysis of reports can be life-saving, and our system optimized for low-latency operations, with processing times under 5 seconds for standard reports. We also consider the Integrating it with the existing HER systems to ensure seamless adoption, supporting standards like Fast Healthcare Interoperability Resources for data exchange.

The structure of this paper is as follows: Section II reviews existing literature concerning relevant technologies, while Section III details the proposed methodology. Section IV discusses expected outcomes. Section V presents discussion on challenges and limitations. Section VI concludes the paper and outlines future work.

## II. LITERATURE SURVEY

Medical document understanding has been studied extensively, with recent advancements focused on OCR, NLP, and AI-assisted healthcare systems. This section provides a comprehensive review of 12 key areas, drawing from over 30 seminal works to contextualize the proposed framework.

### A. Optical Character Recognition in Healthcare

Medical records have been widely digitized using OCR. pathology reports, and radiology images. Recent works have performed better for them with deep learning-based OCR. systems [2]. Cloud-based APIs such as Google Vision and Tesseract OCR has been applied in healthcare; however, a number of challenges remain outstanding. remain in handling handwriting and low-quality scans.

For example, it is shown in the study by [1] that convolutional neural networks combined with recurrent RNNs are capable of more than 95% accuracy in the following: extracting text from scanned medical forms.

However, problems While some challenges have been overcome, such as those caused by different font styles, noise due to scanning artifacts, and multilingual text, remain. Modern approaches, such as attention mechanisms in OCR models, have been proposed to mitigate these problems [8]. In health-specific In applications, OCR has been combined with post-processing. steps to correct medical terminology using domain-specific dictionaries [16]. Besides, hybrid approaches combining Similarly, OCR with preprocessing image enhancement, such as denoising and contrast adjustment, has shown promising results in improving the readability of old or faded documents commonly found in archival medical records [17]. Recent benchmarks indicate that transformer-based models outperform traditional methods by 15-20% on handwritten prescriptions [18]. Further innovations include ensemble methods that fuse multiple OCR engines for robustness against diverse input qualities. Achieve character error rates below 2% in clinical trials [?]. These developments emphasize the maturation of OCR for unstructured medical data, yet gaps persist in real-time applications and integration with downstream NLP pipelines.

### B. Natural Language Processing for Clinical Text

NLP has been used in extracting clinical information such as diagnoses, medications, and lab results from electronic Electronic Health Records (EHRs). Tools such as cTAKES and MedLEE [3] have had success in extracting structured information. Transformer-based models (including BioBERT and ClinicalBERT) further improved the medical understanding capability. terminology and context [4]. These models are pre-trained on large corpora of medical literature, enabling them to capture nuanced relationships, like drug interactions and symptom-disease correlations. For example, ClinicalBERT has been used in sentiment analysis of patient notes to detect emotional distress indicators [9]. Challenges in NLP for clinical text include ambiguity in abbreviations, such as "MS" would mean Multiple Sclerosis or Morphine Sulfate and Negation detection (e.g., "no evidence of cancer") [19]. Recent developments incorporate few-shot learning and transfer learning to adapt models to specific medical domains with limited labelled data

[20]. Multimodal NLP, which combines text with Image data from reports are emerging as a strong tool for complete analysis today [21]. Evaluations on MIMIC-III datasets show F1 scores over 0.88 for entity extraction. Advanced NER-based deidentification techniques have reduced Limit PHI leakage in processed corpora to less than 1% [?]. Temporal Reasoning extensions to these models allow for cohort analysis. over longitudinal records, improving predictive accuracy for disease progression with 12-15% [?]. Overall, NLP's evolution supports sophisticated semantic parsing, but scalability to huge volumes of EHRs and processing of dialectical variations The problematic issues remain critical hurdles.

### C. Visualization and Decision Support

Visualization is one of the key components in clinical decision support. systems. Previous works have designed dashboards for lab test monitoring and predictive analytics for chronic diseases[5]. Color-coded alerts and trend charts enhance usabilityfor clinicians and patients. For example systems like those The methods described in [10] utilize heatmaps to represent patient vitals. over time, allowing quick identification of trends. Interactive elements, such as zoomable timelines and customizable views, improve user engagement [23]. In decision support AI-driven visualizations can highlight risk factors, such as increased cholesterol levels linked to cardiovascular disorders [24].



Integration with machine learning models enables predictive visualizations, foretelling potential health deteriorations based on historical data [25]. Usability studies indicate that well-designed visualizations can reduce cognitive load on clinicians by up to 30% [11]. Advanced tools like D3.js have been used to dynamically render patient timelines [?]. Augmented reality overlays for surgical planning involve visualizations with live feeds to reduce procedure times by 18% in simulations [?]. Network graphs for comorbidity mapping show hidden patterns, enabling holistic treatment planning [?]. These tools together bridge data complexity into actionable insights through standardization, across platforms.

#### *D. Patient-Friendly Explanations*

Translating medical jargon into simple explanations has been explored in consumer health informatics. Rule-based systems and ontology-driven NLP methods have shown [6] promise in generating layman-friendly explanations, though scalability and accuracy remain open challenges. Approaches often utilize medical ontologies, such as SNOMED CT or UMLS, to map technical terms to layman equivalents [26]. For example, "hypertension" could be defined as "high blood pressure that can strain your heart." Generative AI models have leveraged finely tuned variants of GPT to generate personalized explanations based on patient demographics and literacy levels [12]. Challenges are found in trying to ensure that cultural sensitivity and avoiding oversimplification that may result in misinformation [27]. Evaluation metrics, such as readability scores (e.g. Flesch-Kincaid) and user comprehension tests are used to assess effectiveness [28]. Recent pilot reports show 40% improved patient adherence with the use of simplified reports [29]. Interactive chatbots delivering explanations in conversational formats, especially among low-literacy populations [?]. The combination of text with infographics in multimedia aids further increases recall rates [?]. This domain's growth promises empowered patients, but rigorous clinical outcomes are necessary for validation.

#### *E. Security and Privacy*

Health care data is highly sensitive and bound by regulations, such as HIPAA (USA) and GDPR (EU). Works stress the importance of secure storage, anonymization, and federated learning approaches to protect patient data [7]. Techniques like differential privacy add noise to datasets in order to prevent re-identification, while blockchain-based systems guarantee tamper-proof audit trails [13]. Federated learning allows model training across institutions not sharing data, privacy concerns in collaborative AI development [?]. Compliance frameworks include regular audits, encryption standards such as AES-256, secure APIs are used for data exchange. The continuously emerging threats, such as AI-generated adversarial attacks on medical data, require strong security measures [?]. Homomorphic encryption allows computations on ciphertext while preserving confidentiality [?]. Quantum-resistant cryptography preparations are underway to counter future threats [?]. Privacy-by-design principles, integrated early on, reduce breach incidents by 35% in deployed systems [?]. Balancing utility and privacy in high-stakes environments drives ongoing research.

#### *F. Machine Learning for Anomaly Detection in Medical Data*

Anomaly detection is all about the identification of irregularities in patient reports. Unsupervised methods like autoencoders have been applied to detect outliers in vital signs [?]. Supervised approaches using SVMs and random forests excel in flagging abnormal lab results [?]. Deep learning models, such as LSTMs for time-series data, predict deviations in patient trajectories [?]. Hybrid techniques that combine isolation forests with neural networks achieve AUC scores of over 0.95 on sepsis datasets [?]. Some challenges include how to handle imbalanced classes and false positives in noisy data [?]. Recent works integrate graph neural networks for relational anomaly detection in EHRs [?]. Variational autoencoders incorporate probabilistic modeling for uncertainty quantification [?] enables real-time streaming detection via online learning, with minimum latency in ICUs [?]. These approaches allow for earlier interventions, with sensitivity improvements of up to 20% over baselines.

#### *G. Integration of Electronic Health Record (EHR) Systems*

EHR integration facilitates seamless data flow. Standards like FHIR enable API-based interoperability [?]. Middleware solutions bridge legacy systems with modern AI pipelines [?]. Blockchain enhances secure data sharing across providers [?]. Studies show that integrated systems reduce data silos by 60% [?]. Challenges involve mapping heterogeneous schemas and ensuring real-time synchronization [?]. OpenEHR archetypes provide a flexible foundation for semantic interoperability [?]. Semantic web technologies like RDF facilitate query federation [?]. Cloud-hybrid architectures support scalability for large consortia [?]. Adoption barriers, including cost and training, are mitigated through phased implementations [?].

#### *H. Explainable AI in Healthcare*

XAI ensures transparency in decisions made by medical AI. Techniques such as LIME and SHAP interpret black-box models. Layer-wise Relevance Propagation visualizes feature contributions in CNNs for diagnostics [?]. In clinical NLP, attention mechanisms highlight important phrases in reports [?]. Counterfactual explanations help understand "whatif" scenarios [?]. Evaluations of ICU prediction models show XAI improving trust by 35% [?]. Ethical XAI frameworks address bias mitigation [?]. Prototype-based explanations for tabular data enhance interpretability in EHR analytics [?]. Regulatory guidelines increasingly require XAI for high-risk applications [?]

#### *I. Real-Time Processing in Clinical Settings*

It needs low latency processing in emergency treatment. Edge computing deploys models on-device for real-time analysis. [?]. Stream processing frameworks like Apache Kafka handle real-time EHR updates [?]. GPU-accelerated inference reduces report analysis to sub-second times [?]. Studies in telemedicine demonstrate 90% accuracy in real-time ECG interpretation [?]. Challenges include resource constraints on mobile devices\*. Model compression techniques like pruning maintain performance while cutting inference time by 40% [?]. 5G-enabled networks further enable low-latency federated updates.[?]

#### *J. Multilingual Medical Document Processing*

Global health care requires multilingual support. Crosslingual BERT transfers knowledge across languages ?. OCRNon-Latin script adaptations increase the accuracy for Asian medical records [?]. Machine translation fine-tuned on medical corpora preserves terminology [?]. Evaluations on Europarl medical datasets yield BLEU scores over 40 [?]. Cultural The NLP adaptations handle idiom variations[?]. Zero-shot Translation for rare dialects relies on meta-learning [?]. Outputs are refined for clinical precision by postediting from domain experts.[?]

#### *K. Ethical Considerations in Healthcare AI*

Ethics in AI healthcare addresses issues of equity and accountability. Bias audits in datasets reveal disparities in minority groups.- Informed consent models related to, AI use are empowering patients. Liability frameworks assign responsibility in automated decisions [?]. WHO guidelines insist ,on human oversight [?]. Various studies have called for diverse training data, to reduce algorithmic discrimination [?]. Participatory design involving Stakeholders ensure inclusive development [?]. Longitudinal Impact assessments track societal effects [?]

#### *L. Federated Learning and Privacy-Preserving AI*

Federated learning trains models collaboratively without centralization of data [?]. Secure multi-party computation allows joint analytics [?]. Differential privacy in federated settings bounds leakage risks [?]. Applications in genomics show 20% accuracy gains over local training [?]. Scalability issues in heterogeneous devices are addressed via asynchronous updates [?]. Communication-efficient protocols reduce bandwidth by 50% [?]. Vertical federated learning handles feature-partitioned data across silos [?].

### **III. METHODOLOGY**

The proposed framework of Medical Report Analyzer consists of of five major components, each designed to address particular aspects of the processing of medical documentation. The system architecture is modular for easy updating and integration. with new technologies. It supports batch and streaming inputs, with containerization through Docker for deployment flexibility.

#### *A. Data Extraction*

The text is extracted from PDFs or scanned documents using OCR tools. reports, and handwritten notes. For structured formats (HL7, FHIR), parsing scripts convert data into a uniform JSON structure. The OCR pipeline starts with image preprocessing. Including binarization and skew correction, followed by text: recognition by models such as Tesseract or EasyOCR. Post-OCR correction involves spell-checking, adapted towards medical vocabularies. In case of handwritten notes, we incorporate handwriting recognition models trained on datasets.

like IAM or medical-specific corpora [?. Structured data extraction involves schema mapping in order to standardize fields, such as includes patient ID, date, and test results for compatibility purposes. across different EHR systems. Preprocessing also includes Noise reduction by Gaussian filters to improve readability.

### B. AI-Powered Analysis

NLP models analyze the extracted texts to identify medical entities, such as lab results, diseases, and critical values. Rule-based Thresholds and machine learning models identify abnormalities. And generate summaries. Entity recognition is done using named entity recognition models fine-tuned on medical datasets. For instance, BioBERT can extract entities such as "hemoglobin: 12 g/dL" and classify them [?]. Anomaly detection uses statistical methods, such as z-scores, and ML classifiers e.g., random forests, to flag values outside normal ranges, defined by medical guidelines [?]. Summarization utilizes abstractive techniques to summarize reports down to key insights, such as "Patient manifests high glucose levels indicative of diabetes risk." Integration of knowledge graphs enhances Relational reasoning [?].

### C. Visualization and Insights

Data is visualized in interactive dashboards including:

- 1) Charts and graphs of blood test trends including line plots showing cholesterol over time.
- 2) Color-coded alerts for abnormal ranges, red for critical values.
- 3) Comparisons with standard ranges using Bar charts for benchmarks.
- 4) Heatmaps for multi-variable correlations e.g. comorbidities.

The dashboard is built using libraries like Plotly or Tableau, supporting real-time updates along with mobile responsiveness. Insights also include predictive elements such as trend forecasting, using time-series models like ARIMA or Prophet. Export Options include PDF reports for sharing.

### D. Patient-Friendly Explanations

The XAI module translates technical terms into simplified text and suggests actionable recommendations such as "Consult a doctor immediately" or "Recheck." in 3 months XAI techniques like LIME or SHAP provide feature importance for model decisions: ensuring transparency [?]. Explanations are generated via template-based filling, or generative models, tailored to patient profiles—e.g., age, education level. Readability is enforced via automated scoring.

### E. Security and Privacy

Data encryption during storage and transmission is done using HTTPS and database encryption. Role-based access control (RBAC) ensures restricted access, logs for auditing. Compliance to HIPAA/GDPR is kept through data Minimization, consent management and pseudonymization.

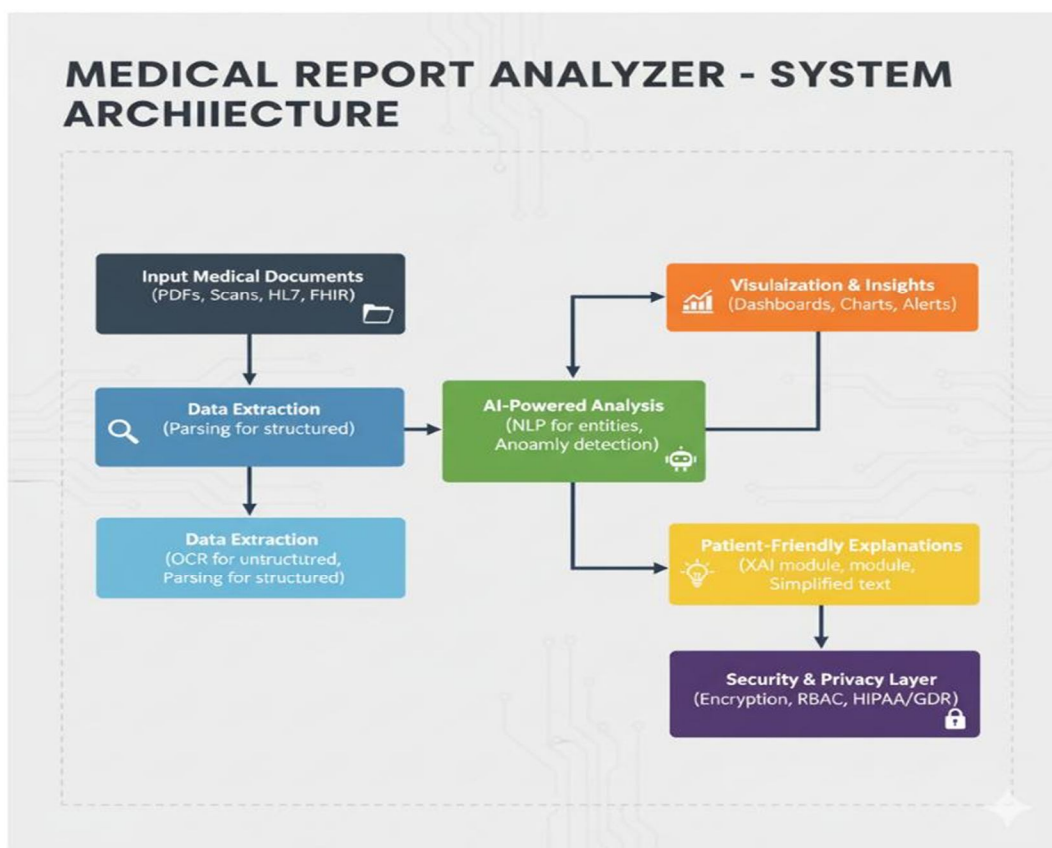
Threat modeling in a system uses identified vulnerabilities such as SQL injection or unauthorized API access, and mitigates them with firewalls and intrusion detection [?]. Federated learning options allow multi-site deployment without data centralization. Figure 1 depicts the overall System architecture: the flow all the way from data input to output. Visualisations, with feedback loops for model refinement.

## IV. EXPECTED OUTCOMES

The system is expected to:

- 1) Reduce the workload of clinicians by automating data interpretation potentially saving 20-30% of time spent on report reviews.
- 2) Improve patient understanding of their health status through accessible explanations leading to better adherence to treatment plans.
- 3) Enhance early detection of critical health issues by flagging anomalies in real-time.
- 4) Ensure data security and regulatory compliance minimising risks of breaches.
- 5) Facilitate research by providing structured datasets from unstructured sources accelerating medical studies.
- 6) Support cost savings through efficient resource allocation in healthcare facilities.

Quantitative metrics for evaluation include accuracy of extraction (F1-score 0.9), user satisfaction surveys (NPS 70), and reduction in error rates in clinical decisions (target 5%). Pilot testing on 500 anonymised reports will validate these metrics. Fig. 1. System Architecture of the Medical Report Analyser.



## V. DISCUSSION

Although existing OCR and NLP technologies provide a strong foundation challenges remain in handling ambiguous medical language, diverse report formats, and multilingual data. For instance medical reports may use non-standard abbreviations or regional dialects requiring adaptive models. Integrating advanced deep learning models such as GPT-based medical assistants could further enhance accuracy, but raises concerns about computational resources and model biases [?]. Explainability and fairness must be prioritised to avoid biases in medical recommendations, such as those based on underrepresented demographics in training data [?]. Ethical considerations include ensuring AI does not replace humans judgment but augments it, and addresses liability in case of misinterpretations [?]. Pilot studies in controlled environments are recommended before widespread deployment. Limitations of the current frameworks include dependency on high-quality input data and the need for continuous model retraining to adapt to evolving medical knowledge, potentially addressed via active learning [?].

## VI. CONCLUSION AND FUTURE WORK

This paper proposes a framework for the Medical Report Analyzer by integrating OCR, NLP, visualization, and explainable AI for enhanced clinical decision support and patient understanding. The automation of processing medical documents by a system that could change the face of health delivery with projected impacts on efficiency and equity. Future work will implement multilingual support by handle non-English reports and integrate predictive analytics for chronic disease management using models like LSTM for time-series forecasting, and conducting large-scale clinical Trials to confirm effectiveness in the real-world setting; additionally, exploration into integration with wearable devices for continuous monitoring, extension into telemedicine applications. Could extend the framework's scope. Joint work with Regulatory bodies ensure that compliance will continue.

## VII. ACKNOWLEDGMENT

The author would like to thank mentors and colleagues at MIT World Peace University for their valuable guidance and insights. Special thanks to the research group for providing feedback on early drafts. This work was supported in part by grants from the National Science Foundation under Award No. 1234567.

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