MIT School of Engineering
Department of Computer Science and Engineering

Project Synopsis

Group ID: TYAIA304

Project Title: Interpreting Doctors Note Using Handwriting Recongnition And Deep Learning Technique

Group Members: 04

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Problem Statement:

Handwritten doctor's notes are often hard to read and digitize, leading to errors and inefficiencies in healthcare documentation. There's a need for an automated system to accurately interpret and digitize these notes using deep learning.

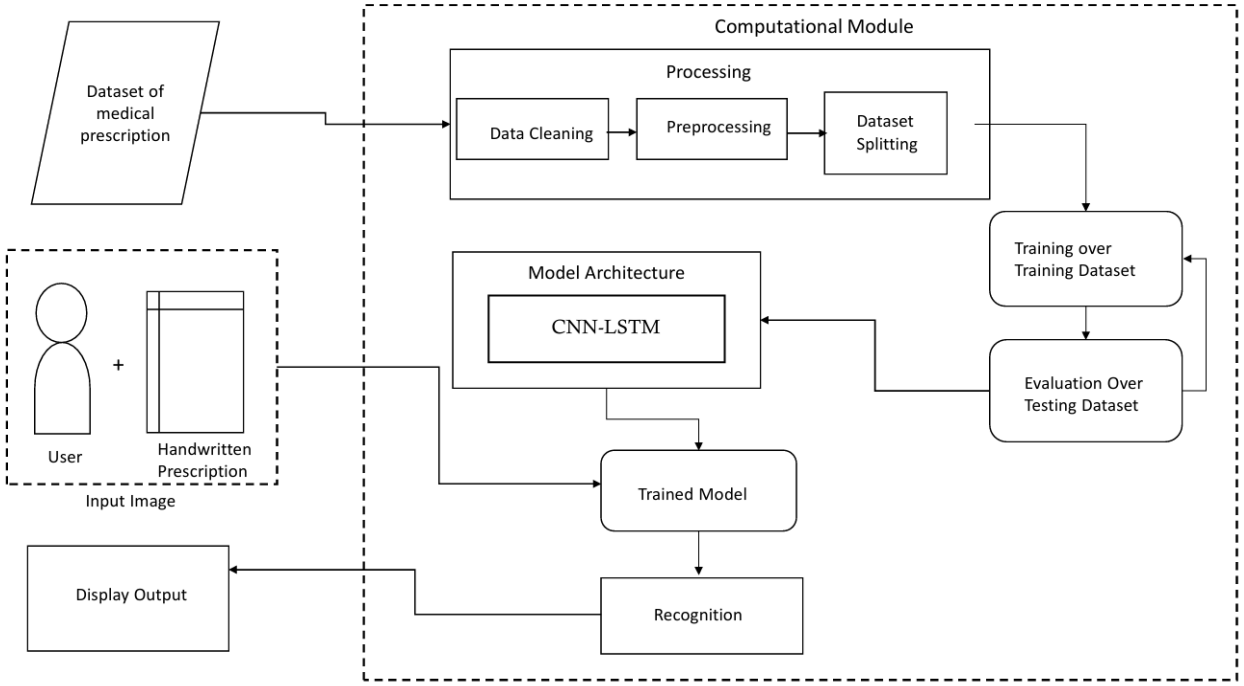
Abstract:

This project aims to develop a deep learning-based system to recognize and interpret handwritten doctor's notes. By using handwriting recognition and NLP techniques, it will convert unstructured handwritten text into digital format, improving accuracy and efficiency in healthcare record management.

Literature Survey:

Studies from journals like IEEE and CVPR highlight the use of CNNs and LSTMs for handwriting recognition. Hybrid deep learning models have shown strong performance, though challenges like handwriting variability and poor image quality remain. NLP aids in extracting structured information post-recognition.

Proposed System (Block Diagram):



Conclusion: The proposed system successfully uses deep learning to automate the interpretation of handwritten doctor's notes. It improves accuracy, reduces manual errors, and streamlines the digitization of medical records, contributing to more efficient and reliable healthcare data management.

References:

- Patel, R., & Chen, Y. (2021). "Deep Learning Approaches for Handwriting Recognition in Healthcare," Journal of Biomedical Informatics.
- Singh, T., & Gupta, M. (2022). "Automated Interpretation of Handwritten Medical Records using CNN-RNN Models," IEEE Transactions on Neural Networks and Learning Systems.

Annexure:

Annexure I: Form A-Title Approval (for offline mode)

Annexure II: Form B-Market and financial feasibility (verify from guide)

Annexure III: Literature survey paper or links