

NIRMA UNIVERSITY
INSTITUTE OF TECHNOLOGY
COMPUTER SCIENCE & ENGINEERING
PROJECT ACTIVITY REPORT (PAR)

NAME OF THE STUDENT : Neha Rana
ROLL NO. : 21BCE246
NAME OF THE COMPANY : Reconnect Energy Solutions

PAR No.: 2

Brief Title:

PDF Summarization & Query Decomposition, Model Testing & Evaluation, Research & Development.

Week 4: PDF Summarization & Query Decomposition

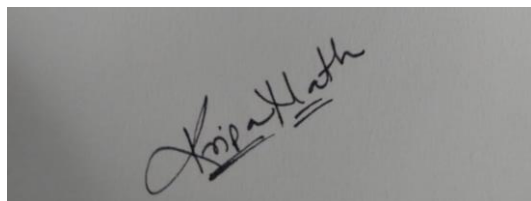
- Refined the PDF summarizer tool
- Study of the paper Lost in the Middle: How LLM Use Long Contexts for Better Generation
- Implementation of the Query Decomposition algorithm using the llama model

Week 5: Model Evaluation & Further Exploration

- Implemented & Tested various Groq-Llama models to identify the best response quality for user-uploaded PDFs and queries
- Other Project understanding

Week 6: Research & Feature Development

- Header & Footer remover algorithm paper implementation
- Research & study of DocLayout-YOLO
- Implemented a boundary detection algorithm to extract coordinates of various document elements
- Explored new features and approaches to enhance the functionality of the PDF summarization tool
- Implementation of the blog creation pipeline

A rectangular box containing a handwritten signature in black ink. The signature appears to be 'Kripa Hathi' written in a cursive style.

Sign of Engineer In-charge /Project

Date: 14/02/2025