MALLAREDDY COLLEGE OF ENGINEERING & TECHNOLOGY

(AUTONOMUS INSTITUTION –UGC, GOVT. OF INDIA)

Affiliated to JNTUH; Approved by AICTE, NBA-Tier 1 & NAAC with A-GRADE| ISO 9001:2015

DEPARTMENT OF COMPUTATIONAL INTELLIGENCE
IV YEAR B. TECH I SEM

COURSE: MINI PROJECT

COURSE CODE:

SECTION: CSE (AI & ML) - A

Memora: Document-Aware AI for Goal-Centric Personal Assistance and Customized Task Scheduling

ABSTRACT:

Memora, a local AI-powered scheduling assistant designed to redefine personal productivity by combining natural language interaction with intelligent calendar management. Unlike existing cloud-based tools, Memora ensures complete data privacy by running entirely on-device, leveraging **FastAPI**, **Next.js**, and **Ollama with Qwen 2.5 7B** for local LLM inference. The system introduces a conversational interface capable of understanding complex scheduling requests, detecting conflicts, and integrating with personal documents through **retrieval-augmented generation (RAG)**. By offering real-time synchronization across chat and calendar views, semantic search, and bulk task operations, Memora aims to provide an intuitive yet privacy-first productivity solution. This work envisions a scalable, extensible platform that not only enhances individual task management but also sets the foundation for future collaborative and multi-modal AI assistants.

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