SUNNY RAJ

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AI/ML Engineer

Expertise in designing, training, and deploying machine learning and deep learning models for real-world applications. Skilled in NLP, RAG systems, embeddings, and neural networks, with strong model optimization knowledge. Experienced in building end-to-end AI pipelines, including data preprocessing, model training, evaluation, and deployment. Proficient in Python, TensorFlow, Keras, and vector databases, integrating AI into scalable applications.

Education

Kamla Nehru Institute of Technology,Sultanpur
B.Tech, CGPA : 8.0   **Sep 2023-Jun 2027**

Projects

[RAG-Based AI Assistant](#)   **Aug 2024 – Sep 2024**

- **Built a Retrieval-Augmented Generation (RAG) system to provide accurate, context-aware answers from video and audio sources.**
- **Implemented data pipelines for speech-to-text conversion, transcript processing, embedding generation, and semantic search.**
- **Developed context-driven prompt generation that combines retrieved information with user queries for precise outputs.**
- **Integrated end-to-end modules for data ingestion, indexing, and interactive question answering.**

[Smart Study Schedular](#)   **Sep 2024 – present**

- Developed a smart study planner with **personalized timetables**, **adaptive scheduling**, and **auto-rescheduling** for missed sessions.
- Integrated **productivity tools** including Pomodoro timer, reminders, focus mode, and daily/weekly progress tracking.
- Designed **analytics features** like study streaks, subject-wise reports, performance insights, and **exam countdowns**.
- **Enhanced learning with AI-powered revision suggestions, spaced repetition planning, and motivational insights.**.

Position of Responsibility

Placement Cell Member, KNIT Sultanpur 2024 – Present

- **Coordinated** campus placement activities, organized 10+ recruitment drives, and guided 500+ students in interview preparation and resume building, improving successful placements by 20%.