

Siddharth Paliwal

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EDUCATION

Vellore Institute of Technology

Integrated M.Tech In Artificial Intelligence (CGPA: 7.65/10)

Bhopal, India

August 2021 - August 2026

St. Anne's Senior Secondary School (CBSE)

Intermediate (Class XII) (74.8%)

Jodhpur, India

July 2020 - May 2021

St. Anne's Senior Secondary School (CBSE)

Matriculation (Class X) (80.8%)

Jodhpur, India

April 2018 - March 2019

WORK EXPERIENCE

Artificial Intelligence Research Intern

October 2024 – December 2024

Defence Research and Development Organisation (DRDO)

DLJ, Jodhpur

- Tasked with generating realistic Indian facial images using GANs, leveraging deep learning frameworks like PyTorch and TensorFlow, to augment sensitive datasets for defence applications in synthetic imagery, enhancing computer vision capabilities.
- Delivered high-quality synthetic facial images for surveillance enhancement and simulation training applications.

Web Developer Intern

January 2023 - March 2023

Humans of Chhattisgarh (For One Media)

Remote

- Collaborated with a team of web developers to design and launch a website that showcases the organisation's work and features regular blog posts, enhancing online presence and engagement
- Integrated multimedia features into the website, improving storytelling and user engagement.

PROJECTS

ChatBook | LLM Powered Assistant

February 2025

- Built a real-time chat assistant that processes any uploaded book or document using Gemini 2.0 Flash LLM achieving 78% faster response times than GPT-4o with high accuracy.
- It also uses ChromaDB as it is faster compared to conventional databases for the vector search task, and is also used for efficient storage and retrieval of book content.
- Integrated LangChain with RAG to manage multi-turn conversations and complex question flows.

MediLink | Doctor-Patient Connection Platform

May 2024

- Co-built a web platform (with two teammates) that enables rural patients to schedule appointments and consult doctors via secure audio/video calls.
- Designed a user-friendly interface to streamline communication processes and reduce appointment scheduling time by 25%.
- Planned future partnerships with local organisations and healthcare workers to boost community engagement, introducing a tracking system to monitor impact and increase participation in health initiatives.

AttendEase | AI Facial Recognition System

March 2023

- Developed an AI-driven attendance system using Local Binary Patterns Histograms for facial recognition, cutting manual marking time by 30% and offering a scalable solution for any institution.
- Created an OpenCV-powered interface for real-time video processing with 90% accuracy.

TECHNICAL SKILLS

Programming Languages: Java, Python, R, SQL, HTML/CSS

Frameworks & Libraries: TensorFlow, PyTorch, FastAPI, OpenCV, Hugging Face Transformer, GANs, LangChain

Databases: MySQL, MongoDB, ChromaDB, Pinecone

Tools: Git, GitHub, Docker, Blender, Figma, Canva, Linux

CERTIFICATIONS

Generative AI with LLMs, AWS & DeepLearning.AI (2025)

Docker Foundations Professional Certificate, Docker (2025)

Applied Machine Learning in Python, University of Michigan (2023)

Cloud Computing, IIT Kharagpur(NPTEL) (2024)