

# 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

- Generated realistic Indian facial images using GANs, leveraging deep learning frameworks like PyTorch and TensorFlow, to augment sensitive datasets for defense 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 1. Header Formatting and Contact Information
- It also uses ChromaDB as it is faster compared to conventional databases for the vector search task, and 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 organizations 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

- Languages:** Java, Python, R, SQL, HTML/CSS
- Database:** MySQL, MongoDB, ChromaDB, Pinecone
- AI/ML:** TensorFlow, PyTorch, OpenCV, Hugging Face Transformers, GANs, LangChain
- Developer Tools:** Git, GitHub, Docker, Blender, Figma, Canva, Linux

## CERTIFICATIONS

Applied Machine Learning in Python, University of Michigan (2023)  
Cloud Computing, IIT Kharagpur (2024)  
Docker Foundations Professional Certificate, Docker (2025)  
Generative AI with LLMs, AWS & DeepLearning.AI (2025)