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EDUCATION

• **Bachelor of Computer Science Hons (Data Science)** 2021-25
IIMS college, Dhobidhara CGPA: 3.6

PERSONAL PROJECTS

- **RecipeAI – RAG-based Recipe Assistant**
Retrieval-Augmented Generation system for recipe recommendations with LLM integration and vector search.
 - Built RAG pipeline with Groq LLM API for context-aware recipe retrieval and recommendations.
 - Developed Streamlit web app supporting real-time chat, relevance scoring, and response tracking.
 - Implemented PostgreSQL for storing conversation history, feedback, and analytics.
 - Created monitoring system for retrieval accuracy, token usage, and user satisfaction metrics.
- **LLaMA 2 Fine-tuning with QLoRA Optimization**
Parameter-efficient fine-tuning of LLaMA 2-7B using QLoRA with 4-bit quantization.
 - Achieved 75% memory reduction via QLoRA (rank 32, alpha 64) with 4-bit NF4 quantization.
 - Optimized training using SFTTrainer with gradient accumulation and cosine learning rate scheduling.
 - Deployed model by merging LoRA weights with the base model using PEFT.
 - Leveraged Hugging Face (Transformers, TRL, BitsAndBytes) with custom dataset preprocessing.
- **AI Posture Coach for Powerlifting**
Real-time powerlifting posture analysis using computer vision and ML.
 - Used Python, Streamlit, MediaPipe, OpenCV, scikit-learn, and PyTorch for development.
 - Implemented real-time pose estimation and classification models to assess exercise form.
 - Provided audio feedback to guide users in correcting posture during workouts.
 - Supported both live webcam analysis and video file uploads for flexibility.

TECHNICAL SKILLS AND INTERESTS

Languages: Java, JavaScript/TypeScript, Python, R, LaTeX
Frontend: React, Redux, Tailwind CSS, GSAP
Backend: Express.js, Flask, FastAPI
ML & Data: PyTorch, TensorFlow, Keras, Scikit-learn, OpenCV, Pandas, NumPy, Matplotlib
Databases: MongoDB, MySQL, PostgreSQL
DevOps/Cloud: AWS, Docker, Git, Postman
Other Tools: Apache Spark, CUDA, Figma, Adobe Illustrator
Coursework: DSA, OOP, OS, DBMS, Software Engineering
Interests: Web Development, Data Science, Deep Learning, AI

AWARDS AND ACHIEVEMENTS

- **1st Runner-Up – Turboline x IIMS Hackathon** June 2025
 - Built a real-time powerlifting posture analysis tool using Python, OpenCV, and MediaPipe.
 - Awarded 1st Runner-Up among teams from Asia for delivering AI-driven solutions in sports technology, judged by experts from the NFL, NBA, and Fanatics.
- **Winner – IIMS Hackathon Deep Learning Codefest (Best Model)** June 2024
 - Won “Best Model” for a U-Net-based semantic segmentation solution in PyTorch.
 - Delivered custom preprocessing, mask transformation, and visualization for urban scene understanding.