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EDUCATION

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

PERSONAL PROJECTS

- **Simple RAG (Retrieval-Augmented Generation) Application**

  Built a system to enhance LLM responses by retrieving relevant document context.

  – Preprocessed documents with LangChain and stored embeddings in FAISS for fast retrieval.
  – Integrated with local (Ollama) and cloud (GPT) LLMs using custom prompt templates.
  – Tech Stack: Python, LangChain, FAISS, Ollama/GPT.

- **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.

- **Maternal Health Risk Analysis**

  Analyzed maternal health risks using large-scale datasets and predictive models.

  – Built Logistic Regression, Random Forest, XGBoost, and ANN models to assess risk levels.
  – Processed large datasets with PySpark, improving speed by 10x over Pandas.
  – Conducted EDA using Seaborn and Matplotlib to visualize risk patterns.
  – Tools & Technologies: PySpark, Python, Logistic Regression, Random Forest, XGBoost, ANN, Seaborn, Matplotlib.

TECHNICAL SKILLS AND INTERESTS

Languages: Java, JavaScript, TypeScript, Python, R, LaTeX

Frontend: React, Redux, Tailwind CSS, GSAP

Backend: Express.js, Flask, FastAPI

Libraries & ML Frameworks: TensorFlow, Keras, PyTorch, Scikit-learn, OpenCV, Pandas, NumPy, Matplotlib

Databases: MongoDB, MySQL

DevOps & Cloud: AWS, Docker, Git, Postman

Big Data Tools: Apache Spark

Tools & Design: Figma, Adobe Illustrator, CUDA

Relevant Coursework: Data Structures & Algorithms, Operating Systems, Object-Oriented Programming, Database Management Systems, Software Engineering

Areas of Interest: Web Design and Development, Data Science, Deep Learning, Artificial Intelligence

Soft Skills: Problem Solving, Self-learning, Presentation, Adaptability

AWARDS AND ACHIEVEMENTS

- **Winner – IIMS Hackathon Deep Learning Codefest (Best Model)**   *June 2024*

  – Awarded "Best Model" for designing a U-Net-based semantic segmentation solution for urban street scene understanding.
  – Implemented in PyTorch with custom preprocessing, mask transformation, and prediction visualization.

- **1st Runner-Up – Turboline x IIMS Hackathon**   *June 2025*

  – Developed a real-time posture analysis tool for powerlifting using Python, OpenCV, and MediaPipe, with pose estimation and feedback integration via a Streamlit dashboard.
  – 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.