

# Aryan Uppuganti

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Bangalore- 560076

## EDUCATION

- B.M.S college of Engineering** September 2023 - July 2026  
*Artificial Intelligence and Machine Learning* Bangalore
  - GPA: 8.79/10.00
- Sri Jayachamarajendra Govt Polytechnic** 2020-2023  
*Pre-University Education* Bangalore
  - Grade: 93.6%
- Shantiniketan Educational Institutions** 2010-2020  
*Secondary Education* Bangalore
  - GPA: 9.6/10.00

## EXPERIENCE

- CairoVision Innovations Ltd** February 2023 - July 2023  
*Machine Learning Intern* Remote
  - Engineered a data annotation pipeline, improving dataset quality by 20%.
  - Developed a preprocessing and augmentation framework, increasing model robustness by 25%.
  - Implemented CNN and Random Forest models, reducing false positives in classification tasks by 18%.
  - Conducted extensive hyperparameter tuning and model evaluation, validating model performance and achieving 82% classification accuracy.

## PROJECTS

- Heart Disease Prediction** December 2024  
*Tools: Python, XGBoost, Scikit-Learn, Pandas, Matplotlib*
  - Built a classification model to predict cardiac disease based on 10,000+ patient records.
  - Applied XGBoost, achieving 98% accuracy in early detection.
  - Engineered a data preprocessing pipeline, reducing data inconsistencies by 30% and enhancing model reliability.
  - Identified top 5 cardiovascular risk factors through feature importance analysis, aiding clinical decision-making.
- Real-Time Pose-Based Action Recognition using LSTM** January 2025  
*Tools: Python, OpenCV, Mediapipe, TensorFlow, NumPy, Pandas, Keras, h5py*
  - Designed an LSTM-based action recognition system, achieving 92% classification accuracy on 5+ action categories.
  - Extracted pose landmarks with Mediapipe, processing 1000+ frames per dataset.
  - Built a four-layer LSTM model with dropout, improving classification stability by 25% over traditional models..
  - Integrated live webcam inference, reducing response time to <0.5 seconds, enabling real-time movement tracking.

## SKILLS

- Programming Languages:** Python, java
- Web Technologies:** HTML, CSS, JavaScript
- Database Systems:** MySQL, MongoDB
- Data Science & Machine Learning:** TensorFlow, PyTorch, Scikit-learn, Pandas, NumPy, Matplotlib
- Developer Tools:** Git, GitHub, VS code

LEADERSHIP / EXTRACURRICULAR

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- **Hackathon Participant**  
*B.M.S college of Engineering*
    - Participated in 5+ development and prompt engineering hackathons, applying AI and software skills.
    - Collaborated with cross-functional teams, developing solutions that improved efficiency by 20%.

2024
- **Respawn Gaming Club Event and Social Media Coordinator**  
*B.M.S college of Engineering*
    - Managed social media campaigns, increasing engagement by 40% across gaming events.
    - Co-coordinated 3+ gaming tournaments, ensuring seamless event execution for 100+ participants.

2024
- **Competitive Swimmer**  
*P M swimming center*
    - Qualified in state-level swimming championships, placing in top 10% in multiple events.
    - Improved race times by 15%, achieving personal best records through structured training.

2014
- **Table Tennis team - Captain**  
*Shantiniketan High School*
    - Led the team to two state-level championships, increasing win rate by 30%.
    - Organized weekly training sessions, enhancing team performance and strategy execution.

2017 - 2018
- **Amateur Athlete – Badminton, Football**  
*Training Courts*
    - Engaged in regional-level badminton and football tournaments, refining technical and tactical skills.