

Aaryan Kaushik



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Educational Qualification

- **Indian Institute of Technology, Hyderabad** (2021-2025)
BTech in Computational Engineering
CGPA: 9.33

Skills

- **Programming**
 - Proficiency in C, C++, Python, JavaScript programming languages
- **Web Development**
 - Experience in HTML, CSS and JavaScript languages
 - ReactJS library
 - Django backend web framework
- **Machine Learning**
 - Proficiency in Deep Learning for Computer Vision using CNN
 - TensorFlow, PyTorch, OpenCV, Mediapipe
 - Experience in Deep Reinforcement Learning
 - OpenAI Gym
 - Time series predictions using RNN
- **Soft Skills**
 - Experience in debate activities
 - Team Work
 - Communication

Work Experience

- **AI-ML Intern @ Foliofai** (Feb'23 - Present)
 - Working on Deep Reinforcement Learning for portfolio management
- **Team Member of Inter-IIT Sci-Tech Meet 2023** (Dec'22 - Feb'23)
 - Worked on Computer Vision part of Grow Simplee (High Prep) problem statement.
 - Represented IIT Hyderabad with a team of 30 students at the meet held at IIT Kanpur.
- **ML Coordinator @ Google Developers Student Club, IIT Hyderabad** (Jan'23 - Present)
 - Conducting various community sessions on machine learning
 - Working on projects related to computer vision
- **Core Member @ Epoch, IIT Hyderabad** (July'22 - Present)
 - Epoch is the AI-ML club of IIT Hyderabad
 - Working on projects related to computer vision and reinforcement learning
- **Core Member @ Electronica, IIT Hyderabad** (July'22 - Present)
 - Electronica is the electronics and signal processing club of IIT Hyderabad
 - Working on making use of Raspberry Pi and Computer Vision for real world applications.
- **Teaching Assistant for Introduction to Programming, IIT Hyderabad** (Dec'22 - Feb'23)
 - This course introduces students to the basics of general programming and programming in C language.

- Dr. Fahad Panolan, Dr. Oves Badami and Dr. Kotaro Kataoka were the course instructors for this course.
- **Teaching Assistant for Fundamentals of Scientific Computing, IIT Hyderabad**
(Dec'22 - Feb'23)
 - This course introduces students to the basics of scientific computing along with programming in python.
 - Dr. Saswata Bhattacharya and Dr. Niranjana S Ghaisas were the course instructors for this course.

Projects

- **Website for Face Detection**
 - A project to combine web and ML. Used *mediapipe* and *OpenCV* for face detection and *Django* framework as backend.
 - For more details, have a look at the [git repository](#).
- **Hand Gesture Controlled RC Car**
 - Used Raspberry Pi microcontroller for controlling RC Car. Used *socket python* library for making server on Raspi and client on my laptop. Used *mediapipe* and *OpenCV* for hand detection.
 - Check out a two minute [demo](#).
- **Chess Bot** (currently working on it)
 - A chess playing bot to be built using Raspberry Pi as microcontroller. We will use *TensorFlow* for chess piece detection, *StockFish* for chess playing algorithm and a robotic hand for moving pieces.

Relevant Courses

- **Computer Science:** Data Structures, Operating Systems - I, Operating Systems - II
- **Electrical:** Digital Circuits, Hardware Description Language (Verilog)
- **AI and Scientific Computing:** Fundamentals of Scientific Computing, Numerical Methods - I, Numerical Methods - II, Basics of Machine Learning, Optimization Techniques, Computational Methods in Material Science

Achievements

- **JEE Advance 2021:** Secured All India Rank 1171.
- **JEE Mains 2021:** Secured All India Rank 2062.
- **KVPY 2021:** Secured All India Rank 1053.
- **NEST 2021:** Secured All India Rank 13.

Extra Curriculars

- **Core Member @ Debate Club, IIT Hyderabad**
 - I love to view a topic from different angles. Debate is one of the best ways to get it.