# Aviral Gupta

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## About Me

Hello! I'm Aviral, a second-year student pursuing a Dual Degree (B.Tech + MS by Research) in Computer Science and Engineering at IIIT Hyderabad. I specialise in Python, with experience in libraries like Pandas, MatPlotLib, Sklearn, Keras, and BeautifulSoup, alongside web development (Vanilla and React framework). I enjoy learning about the latest tech trends and have interests in Formula 1, music, and aviation.

## Skills

- **General** : Web Development, Web Scraping, Operating System Development, Internet of Things
- **Languages** : Python, C, MySQL, x86 Instruction Set Architecture, JavaScript, C++
- **Frameworks** : Flask, Matplotlib, Pandas, Keras, React, Node.js, Next.js, Material UI, Tailwind, Bootstrap
- **Tools** : Git, Bash, Linux, Arduino, Visual Studio Code, Figma, ThingSpeak
- **Soft Skills** : Teamwork, Communication, Problem Solving,

## Education

- International Institute of Information Technology (IIIT), Hyderabad [ 2023 - 2028 ]
  - B.Tech & M.S. in Computer Science and Engineering by Research
  - CGPA : 9.06
  - Also part of Entrepreneurship-Cell (as Events Team Member) and Student Alumni Connect Cell (as Head of Events and Logistics Team)

## Projects

- **GradR** [ Deployment Link : http://gradr.vercel.app ]
  - Technologies Used : Typescript, Tailwind, React and Next.js
  - Open-source crowd-sourced initiative, enabling students to calculate grades, percentages and GPAs in real-time with upto date data. Attracted 100+ users within the first month.

- **Fuse** [ GitHUB Repo : https://github.com/unignoramus11/fuse ]
  - Technologies Used : HTML, CSS, JavaScript, Bootstrap, Python, Flask and MySQL
  - Web application for image slideshows with user authentication, transitions, background audio, timing control, and database management. Implemented parallel processing with threads to optimise video rendering. Deployed on AWS, showcasing full-stack development, cloud hosting, and teamwork skills.

- **Fiery** [ GitHUB Repo : https://github.com/unignoramus11/fiery ]
  - Technologies Used : IoT, ESP 32 Dev Module, Arduino Programming Language, HTML and CSS
  - An IoT based fire detection system for buildings. Leveraging autonomous technologies like MQ2 (smoke), DHT11 (humidity and temperature) and IR sensors (flame) to better detect any fires; and trigger necessary alarms and actuators.

- **Portfolio Website** [ GitHUB Repo : https://github.com/avi1o1/avi1o1.github.io ]
  - Technologies Used : HTML, CSS and JavaScript
  - As a final test of skills for the newly learnt web dev skills, I tried making my personal website.

- **CurrTor** [ GitHUB Link : github.com/avi1o1/snake-game ]
  - Technologies Used : HTML, CSS and JavaScript
  - A simple currency converter application, which utilises various APIs to provide up to date data.