

DEDEEPPYA AVANCHA

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Education

International Institute of Information Technology Bangalore

Aug 2023 – Present

Integrated M.Tech (IMTech) in Computer Science

CGPA: 3.83/4

Projects

Dynamic Cloth Simulation | C++, SFML, ECS Architecture

November 2024

- Developed a dynamic cloth simulation in C++, employing a mass-spring model; implemented features like pinning points and dynamic cloth cutting; Utilized SFML for visualization.

2D Game with ECS Architecture | C++, SFML

November 2024

- Developed a 2D game in C++ using an ECS architecture; implemented collision detection, user input handling, and enemy spawning systems; Used SFML for rendering and input.

AI College Resource Assistant | Python, Streamlit, LangChain, Flask, OpenAI API September 2024

- Developed an AI-powered chatbot for college resources during a hackathon for efficient access to academic and personal information; Integrated vector stores using OpenAI embeddings for semantic search.

NGO Prototype Website | Express.js, MongoDB, JavaScript

April 2024

- Collaborated in a team of 2 to develop an interactive website during a hackathon; focused on back-end development using Express.js and Django; Secured third place.

Technical Skills

Programming Languages: Python, C, C++, Java, HTML, CSS, JavaScript, SQL,

Tools and Technologies: Node.js, Express.js, MongoDB, React.js, Git, LaTeX, Pandas, Numpy, Matplotlib, Seaborn

Soft Skills: Collaboration, Communication, Problem-Solving

Awards and Scholarships

HGS Scholarship Recipient for Women in AI-ML

2024

Awarded the prestigious HGS Women in AI-ML scholarship; received a fee waiver of INR 1.5 lakhs.

Shubhra Kar LiFT Scholarship Recipient

2024

Selected as one of 500 recipients worldwide for the Shubhra Kar LiFT scholarship; gained access to specialized Linux training.

Dean's List for Outstanding Academic Performance

2024

Achieved a CGPA greater than 3.60, earning a place on the Dean's List.

Scored 10/10 CGPA in 10th grade.

Achieved 99.5 percentile in JEE Mains 2023 and an All India Rank under 8000 in JEE Advanced

Extracurricular Activities

Member - Ideation Team

August 2024 – Present

Entrepreneurship Cell (E-Cell)

IIIT Bangalore

- Participated in events promoting financial literacy and entrepreneurship; authored case studies on Pidilite Industries and Hyundai IPO; engaged in a short interview with entrepreneur Ronnie Screwvala.

Relevant Coursework

- Data Structures and Algorithms
- Computer Architecture
- Signals and Systems

- Computer Networks
- Object Oriented Programming in C++

- and Java
- Discrete Math
- Linear Algebra
- Real Analysis

- Digital Design
- Economics
- Technical Communication