RISHIKESH NITIN KIMMATKAR

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Academic Details

Year	Degree	Institute	CGPA/Marks(%)
2023	B.Tech Chemical Engineering	IIT Hyderabad	8.59
2023	B.Tech in Biomedical Engineering (Minor)	IIT Hyderabad	8.41
2019	XII (Maharashtra State Board of Secondary and Higher Education)	Santaji Mahavidyalaya	93.54%
2017	X (CBSE)	BVM Civil Lines	10

Positions of Responsibility

- Core Member at Elektronica Club (Electronics club of IITH, 2020-2021) - Mentored the students and participated in the various sessions. Also did a project on Computer Vision while in the club.
- Core Member at Prakriti Club (Nature club of IITH, 2020-2021) - Organized, participated, and volunteered in many sessions.
- Part of Inter IIT Techmeet team - Participated in Engineer's Conclave 2021

Skills

- **Programming Languages** - C++, JavaScript, Python
- **Toolkits and Softwares** - SQL, MATLAB, Arduino, SolidEdge
- **Libraries and Frameworks** - OpenCV, Numpy, Pandas, ReactJS, Git, Tensorflow
- **Other Skills** - Problem Solving, Data Structures, Algorithms, DBMS,Excel
- **Soft Skills**- Teamwork, Communication, Leadership

Relevant Courses

Courses Offered by Institute -
1. Computational Fluid Dynamics, Data Analysis tools, Numerical Methods, Linear Algebra
2. Basic Control Theory, Energy Audit, Energy Management, Fuel cell Management
3. Entrepreneurial Risk Management, HR and Leadership, Social Entrepreneurship, Introduction to Property Rights
4. Bioprocess Technology, Microfluidics, Tissue Engineering, Nanomedicine, Brain, and Neuroscience
Online Courses -
C++ OOP, DBMS, Operating Systems and Computer Networks

Projects

- **E-commerce Website prototype (with JavaScript)** - A e-commerce shopping website with typical functions like Home Page, Categories, Authentication (Log in/Logout), and Add to Cart. When some items are selected from one or many categories and added to the cart, the total would be calculated on the cart site.
- **Touchless Automatic Mask Detection (with OpenCV, TensorFlow, and Raspberry Pi, February 2021)** - Whenever a face comes in front of the camera apparatus, through the help of some image processing, the device can tell whether a person is wearing a mask or not. The infrared temperature sensor can also reveal their temperature.
- **Web Crawler (Python, January 2022)** - A program that automatically searches a website for matching keywords. Whenever matches are found they are displayed in the console.
- **Speaking Display (Python, Arduino Jan 2020)** - Deaf/Mute people may have trouble communicating with normal people so this project displays some important messages when such people move their hands in some particular orientation. This message is then displayed on a LED screen connected to the Arduino and by using a text-to-voice converter a sound message is also conveyed to the surroundings.

Extracurricular

- Participated in several events under NSS (National Service Scheme) IITH.
- Volunteered for various domains in Elan & nVision 2020.
- Participated in Hackathon in Elan & nVision 2020.