

# Kshitija Dupare

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## EDUCATION

<b>Vishwakarma Institute of Technology , Pune, Maharashtra</b>	Jan'21 - June'24
Majoring in Electronics and Telecommunications Engineering	GPA: 8.29
<b>Sarvashree College, Nagpur, Maharashtra</b>	2019 - 2021
HSC from Maharashtra Board	Pct: 95.17 %
<b>Gandhi City Public School Pulgaon, Maharashtra</b>	Jun'19 - May'20
SSC from CBSE board	Pct: 90.02 %

## SKILLS

<b>Functional:</b>	Project Management Methodologies, Project Initiation, Project Planning, Project Execution, Project Closing, Project Life cycle management, Project Documentation, Team Management, Time Management, Communication, Leadership, Strong Interpersonal Skills, Agile Methodologies, Budgeting, Risk Management, Operational Structure and Culture, Resource Allocation, Problem Solving, Negotiation Skills.
<b>Technical:</b>	HTML, CSS, Java, Verilog, Embedded C.
<b>Software:</b>	Microsoft Suites, Google Suites, Jira.

## EXPERIENCE

<b>Academic Researcher</b>	June 2023 – May 2024
Role: Conducting and Publishing Research	

- Initiated and planned research projects including "A 4-Input 8-Bit Comparator with Enhanced Binary Subtraction," "SIFT-Based Facial Features for Age Estimation," and "Designing of Robotic Arm Decoding Hand Gestures using Arduino Nano"; tracked progress with weekly goals and managed technical aspects.
- Documented and analyzed data, wrote detailed reports, and presented findings at IEEE and Springer conferences.

<b>Event Planner</b>	Aug 2022 – Aug 2023
Role: Assistant Secretary	

- Started as Multimedia Coordinator and later became Assistant Secretary for "DIVA" college society; organized events focused on empowering women, leading a team of 30 students.
- Planned events, managed budgets, met time deadlines, and coordinated guest speakers and panel discussions; successfully organized and executed 2 events per month for 5 consecutive months, significantly increasing the club's reach in the college.

## PROJECTS

<b>Hand Motion Detection using Arduino UNO</b>	April'22 - June'22
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- Addressed the need for a touchless control interface for media playback on a laptop by designing a hand motion detection system using two ultrasonic sensors and an Arduino UNO.
- Designed and implemented a system to measure the distance between the palm and sensors, integrating PyAutoGUI in Python to enable media controls such as play/pause, forward, rewind, and volume adjustments based on hand distance.

<b>A 4-Input 8-Bit Comparator with Enhanced Binary Subtraction.</b>	June'23 - Oct'23
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- Tackled the challenge of enhancing numerical comparison efficiency in digital systems by developing a 4-input 8-bit comparator incorporating a full adder and two's complement logic.
- Designed and implemented an innovative multi-input comparator to improve efficiency, achieving precise results in both schematic and simulation.

<b>SIFT-Based Facial Features for Age Estimation</b>	June'23 - Oct'23
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- Developed a system for age estimation using SIFT-based facial features to enhance accuracy in predicting age from facial images for security and marketing applications.
- Evaluated machine learning algorithms, including Support Vector Machines (SVM), Decision Trees, and Random Forests, for age prediction by using SIFT to extract facial features from the UTKFace dataset, achieving the highest accuracy of 88.1% with SVM.

## TRAININGS

<b>Google Project Management Professional Certificate (Coursera)</b>	June 2024
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- Acquired project management skills, including risk management techniques and proficiency with tools such as Asana, RACI charts, project charters, and stakeholder analysis grids.
- Gained knowledge of project management roles and responsibilities, the project management lifecycle, and comparing different project methodologies.

<b>Career Skills (Offered by TCSiON on National Career Service Portal)</b>	June 2023
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- Developed interpersonal abilities including soft skills, business, telephone, and corporate etiquettes.
- Enhanced impactful email writing and group discussion skills.

## ACHIEVEMENTS

- Presented a paper named "Designing of Robotic Arm Decoding Hand Gestures using Arduino Nano" at "Second IEEE International Conference on Measurement, Instrumentation, Control, and Automation" organized by NIT Kurukshehra and IEEE Delhi Section.
- Presented paper entitled "A 4-Input 8-Bit Comparator with Enhanced Binary Subtraction" in "6th International Conference on Communications and Computational Technologies (ICCT 2024)", which is to be published in Scopus-indexed Springer Book Series, Lecture notes in "Networks and Systems."
- Accepted for presentation: "SIFT-Based Facial Features for Age Estimation: A Machine Learning Based Approach" at the IEEE Conference on Recent Advances in Intelligent Computational Systems (RAICS 2024).
- Received Certificate of Merit for outstanding performance in class 10th and 12th.
- Achieved 1st and 3rd city rankings in the 19th National Science Olympiad (NSO) and 9th International Mathematics Olympiad (IMO) organized by SOF.